PCM-2700

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model

Model Name Using Similar Mechanism	DTC-77ES/87ES
Tape Transport Mechanism Type	DATM-51

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使用時は添付資料も参照のこと
Refer to the additional documents.

DIGITAL AUDIO RECORDER

SONY®

SECTION 1
SERVICING NOTES

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

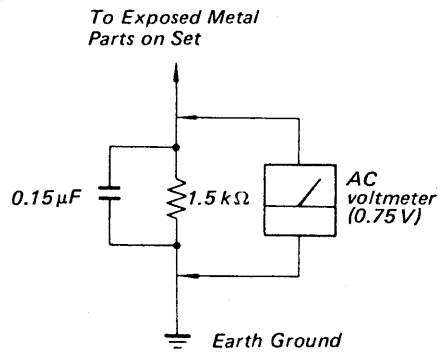


Fig. A. Using an AC voltmeter to check AC leakage.

NOTE ON LITHIUM BATTERY

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

ADVARSEL !
Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Lever det brugte batteri tilbage til leverandøren.

ADVARSEL

Lithiumbatteri – Eksplosjonsfare.
Ved utskifting benyttes kun batteri som
anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

8-3 Specifications

General

Power requirements	USA/Canada model: 120 V AC ±10 %, 60 Hz Europe/UK model: 220 to 240 V AC ±10 %, 50/60 Hz
Power consumption	40 W
Operating temperature	5°C to 40°C (41°F to104°F)
Storage temperature	-20°C to +55°C (-4°F to131°F), without moisture condensation
Weight	10.2 kg (22 lb 8 oz)
Dimensions	430 x 130 x 350 mm (W/H/D) (17 x 5 1/8 x 13 7/8 inches), without the rack mount adaptor

Digital audio input and output section

Number of record channel	2 channels
Sampling frequency	48 kHz, 44.1 kHz, 32 kHz
Quantization	16-bit linear/12-bit non-linear
Error correction	Double-encoded Reed Solomon code
Modulation system	8-10 modulation

Tape recording section

Format	IEC digital audio tape cassette system DAT for professional use
Head	Rotary head (4-head) (REC/PB X2, monitor X 2)
Drum rotation	2000 rpm (standard recording)
Tape speed	8.15 mm/sec. (standard mode) 4.075mm/sec. (long-play mode)
Track pitch	13.6µm
Tape	Digital audio tape
Recording time	120 minutes (standard mode) 240 minutes (long-play mode) (with tape type DT-120)

Mechanical section

Fast-forward/rewind	Within 60 seconds (with tape type DT-120)
Rise time	1.0 seconds or less (pause → play) 2.0 seconds or less (stop → play)
Searching speed	150 times max. normal playback speed
Cue/review speed	Approx. ±3, ±8 times normal playback speed

Input/output interface

Analog input

Connector	XLR-3-31
Reference level	+4 dBs (factory set)
Maximum level	+24 dBs
Input impedance	Approx. 10 kilohms, balanced
Adjustable range	-12 dBs to +8 dBs

Analog output

Connector	XLR-3-32
Reference level	+4 dBs (load impedance 10 kilohms) (factory set)
Maximum level	+24 dBs
Output impedance	Less than 50 ohms, balanced
Load impedance	More than 600 ohms
Adjustable range	-12 dBs to +8 dBs

Digital input

Connector	RCA phono jack
Format	IEC958 digital audio interface (Broadcasting studio use/consumer use)
Input impedance	75 ohms, unbalanced
Lock range	±0.1 % (each sampling frequency)

Digital output

Connector	RCA phono jack
Format	IEC 958 digital audio interface (Broadcasting studio use)
Output impedance	75 ohms, unbalanced
Load impedance	75 ohms

Headphones output

Connector	Stereo standard jack
Reference level	-27 dBs (load impedance 8 ohms) (PNONE LEVEL: maximum)
Output impedance	Approx. 100 ohms
Load impedance	More than 8 ohms

REMOTE (37 P)

Connector	D-SUB 37-pins (female)
Format	Parallel
Input level	L; ground short (less than 100 ohms) H: open collector (high impedance)
Output level	L: less than 0.8 V (Imax.: 25 mA) H: open collector (10 kilohms pull-up)
+5 V output	Imax. 100 mA

Audio section

Frequency characteristic	
	20 Hz to 20 kHz, ± 0.5 dB (standard mode)
	20 Hz to 14.5 kHz, ± 0.5 dB (long-play mode)
Signal-to-noise ratio	More than 90 dB (with A-weight filter)
Total harmonic distortion	
	Less than 0.05 % (standard mode)
	Less than 0.3 % (long-play mode) (at reference level, 1 kHz)
Wow and flatter	Below measurable limit (± 0.001 %, W. Peak)
Signal delay time (RAW mode)	
	Approx. 120 milliseconds (standard mode)
	Approx. 240 milliseconds (long-play mode)

Note:
The reference level is the level at -20 dB from the full bit on the peak level meter scale.

Accessories

Wireless remote commander (RM-D2700)

Remote control system	Infrared pulse control
Power requirements	3 V DC, with two size AA (R6) batteries
Dimensions	Approx. 63x19x175 mm (w/h/d) ($2^1/_2$ x $^3/_4$ x 7 inches)
Weight	Approx. 130 g (4 oz) incl. batteries

Supplied accessories
Wireless remote commander RM-D2700 (1)
Sony batteries SUM-3 (NS) (size AA (R6)) (2)
The seat for the parallel remote (1)
AC power cord (1)
Rack mount adaptor (2)
Screws (M3x28) (4)
Screws (M5x12) (4)
Decorative washers (4)
Operation manual (1)
Warranty card (1) (USA/Canada model only)

Accessories recommended (Optional)
Parallel remote commander RM-D7100
Cleaning cassette DT-10CL

Design and specifications are subject to change without notice.

1-2 Features

(1) Digital Audio Recorder Compatible With DAT Format Standard

Audio signals are converted into 16-bit quantized digital data for recording and playback realizing pure reproduction with virtually no degradation in sound quality. Moreover, the basic tape format is compatible with consumer-use DAT equipment.

(2) Professional-use Digital I/O

Digital I/O terminals (unbalanced phono jacks) conform to the professional format standard (IEC958-TYPE I*) enabling digital dubbing using another PCM-2700. The digital input terminals also accept consumer format (IEC958-TYPE II*) signals for digital recording from consumer-use equipment.

(3) Wide-range Analog I/O Level Adjustment

Rear panel signal level adjustment function for the balanced type (XLR) analog I/O jacks covers a wide adjustment range from professional-use to consumer-use levels.

(4) 4-Head, 4-DD Mechanism

The PCM-2700 is the first digital audio recorder in its class to employ a four-head system enabling monitoring of the playback signal during recording (RAW function). Moreover, all four tape transport motors offer direct-drive operation for improved tape transport stability.

(5) Compatible With Various Sampling Frequencies (Fs)

Allows recording and playback in both standard play (SP) mode and long play (LP) mode compatible with consumer-use equipment. Analog recording is possible at sampling frequencies of 48 kHz (SP), 44.1 kHz (SP) and 32 kHz (LP), and digital recording is possible at sampling frequencies of 48 kHz (SP), 44.1 kHz (SP) and 32 kHz (SP/LP). Playback is possible at all frequencies and modes.

*** Note**

"TYPE I" or "TYPE II" stands for the followings:
INTERNATIONAL STANDARD IEC958 (Digital audio interface)
TYPE I: Channel status application for "Broadcasting studio use"
TYPE II: Channel status application for "Consumer use"

(6) Remote Control Operation

Wireless remote control is possible using the supplied RM-D2700 remote commander, and wired remote control is possible using the optional RM-D7100 remote controller.

(7) Various Subcodes and Search Functions

In addition to the Start ID, Skip ID and End ID, other subcodes such as the absolute time and program number can be recorded in and read from the tape's subcode area to provide a wide variety of convenient DAT search functions.

(8) Built-in Date Function

A dedicated built-in clock is used to automatically record the date (year/month/day), day of the week, and time (hour/minute/second) in the tape's subcode area, allowing confirmation of the date and time of recording during playback.

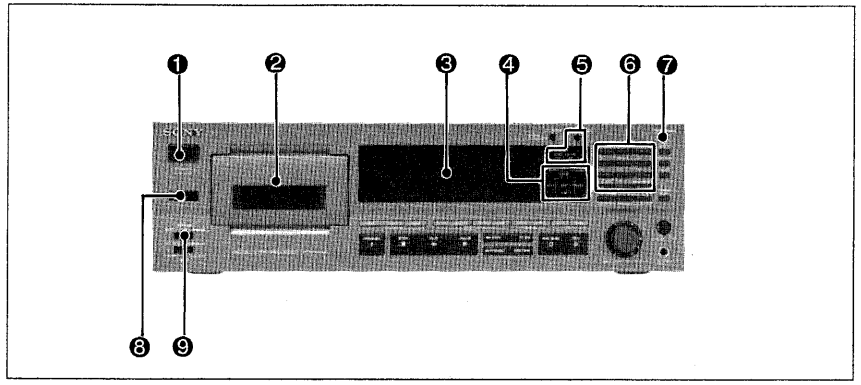
(9) Multi Display Provides Quick Access to Many Types of Information

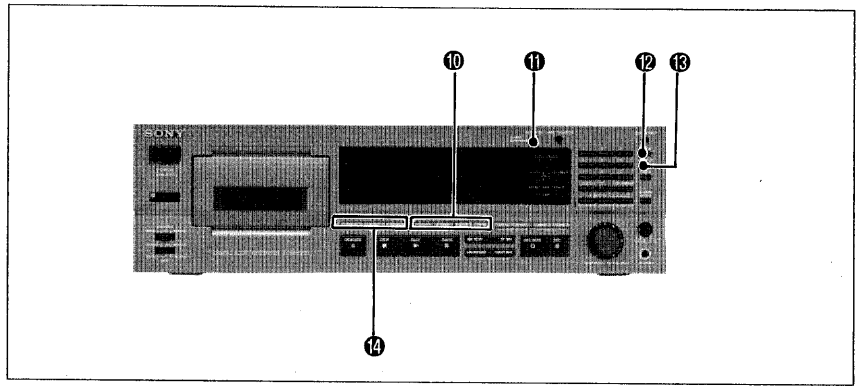
In addition to displaying the program number and various types of time/counter data, this display is provided with features including a 29-segment peak level meter and a 0.1 dB-step peak margin indicator.

(10) Rack Mounting Compatibility

Use of the supplied adapter allows mounting in a standard 19" rack.

2-1 Front Panel





❶ POWER switch
Turns the power on and off.

❷ Cassette compartment
Insert a cassette with the window side up and the safety tab facing you.

❸ Display window

❹ ID indicators
Display which ID button is pressed.

❺ INPUT MONITOR switch and indicators
Switch the output signals from the ANALOG OUT jack, DIGITAL OUT jack and PHONES jack during recording.
In the INPUT mode, the signal being input is output.
In the REPRO mode, the signal to be recorded is output. During playback, the REPRO mode is selected automatically.

❻ Music select buttons
Numeric buttons (0–9): Designate the desired program number to be played back before starting playback.
CLEAR: Use to cancel the program number which has been mistakenly entered.

❼ TIME SEARCH
Press to search for the position of the tape you want to listen to by using the absolute time.

❽ Remote sensor
Receives the signal from the wireless remote commander.

❾ REMOTE switch
Switches between the supplied wireless remote commander and optional wired remote commander.

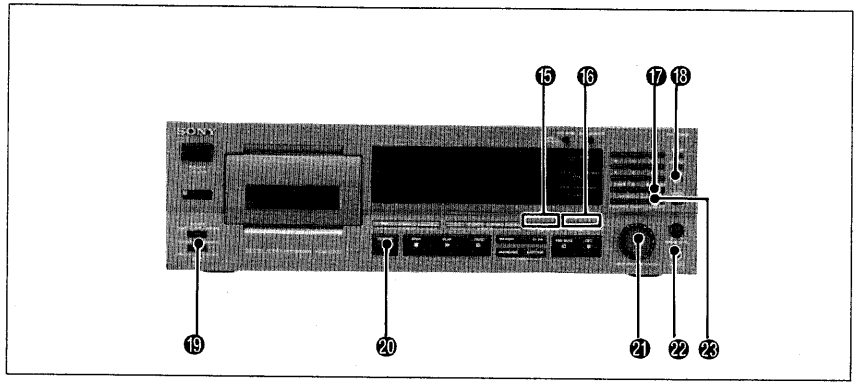
❿ START ID buttons
AUTO: Press to turn on and off the AUTO indicator. When the AUTO indicator is lit, the start ID will automatically be written during recording. The leading edge of the signal level for analog input or U-bit of the interface for digital input is detected and start ID is automatically written.
RENUMBER: Press to renumber all programs on the tape. When only the start IDs are written, pressing this button will insert the proper program numbers beginning with "1". The tape will rewind and start from the beginning to accomplish this function.
WRITE: Press to write the start ID at the desired point during recording or playback.
ERASE: Press to erase a start ID. When a start I D and a program number are written on the tape, both codes are simultaneously erased by pressing this button.

⓫ REC MODE selector
Normally set to STANDARD.
When this selector is set to LONG, you can record analog input signals or digital signals with 32 kHz in the long-play mode.

⓬ REPEAT button
Press to play a desired portion repeatedly. Each time you press the button, the indication changes as follows: REPEAT 1 → REPEAT ALL → off

⓭ SKIP PLAY button
Press to activate the skip ID code function. The portion of the tape previously marked will be skipped.

⓮ COUNTER buttons
MODE: Selects the counter display in the display window among the linear counter (tape running time), absolute time, elapsed time of the selection, and total remaining time of tape. Each time you press the button, the display changes sequentially.
RESET: Resets the linear counter to "0M 00S".
MEMORY: Press to search for the position of the tape you want to listen to (Memory play, Memory stop).



⑮ SKIP ID buttons
WRITE: Press at the beginning of the portion you may wish to skip later. A skip ID will be written from the point where you pressed this button.
ERASE: Press to erase the nearest skip ID which is before the current position.

⑯ END ID buttons
WRITE: Press to write the ID signifying the end of playback or recording.
ERASE: Press to erase the end ID.

⑰ COPY PROHIBIT button
Press to wirte the copy prohibit code on the tape so that the COPY PROHIBIT indicator appears on the display.

⑱ FADER button
Press to fade in or fade out during recording or playback.

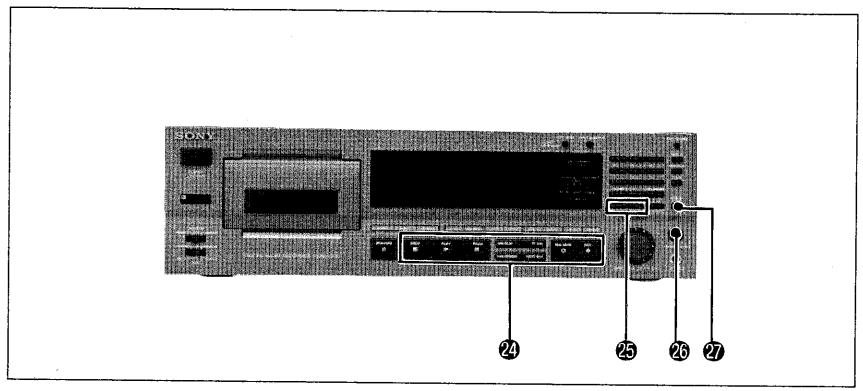
⑲ INPUT selector
Set according to the signal to be recorded.
ANALOG: Selects when recording from the equipment connected to the ANALOG IN jacks. In this mode, the sampling frequency of 48 or 44.1kHz is also selected.
DIGITAL: Selects when recording from the equipment connected to the DIGITAL IN jack.

⑳ OPEN/CLOSE button
Press to open or close the cassette compartment.

㉑ INPUT LEVEL control
Adjust the recording level for the analog input signals. The outer knob controls the CH 1(L) level and the inner knob the CH 2(R) level. The knobs can be adjusted together. Normally set to the 10 (MAX) position.
When recording digital signals, it is not necessary to adjust the recording level.

㉒ PHONES jack

㉓ CLOCK SET button
Press to adjust the time of the clock built in this unit.
In this mode, The COPY PROHIBIT button and the 0 button function as the + and - buttons respectively.



㉔ Tape operating buttons
■(stop): Press to stop recording or playback.
►(play): Press to play back the tape.
● (recording): Press to set the unit to record-pause mode. After pressing this button, press **II** or ►.
II (pause): Press to stop for a moment during recording or playback. To restart recording or playback, press this button again or press ►. If the unit is left in the pause mode for about 10 minutes, it will automatically be released and the deck will enter the stop mode. To restart recording or playback from the stop mode, press REC or ► respectively.
O (record muting): Inserts a sound-muted portion (space).
I◄◄(PREVIOUS)/►►I(NEXT) (AMS): Press to locate the beginning of the selection during the playback.
◄◄(REW)/►►(FF) (rewind/review, fast-forward/cue): In the stop mode, press to rewind/fast-forward the tape. During playback, press to rewind or fast-forward the tape while listening to the sound.

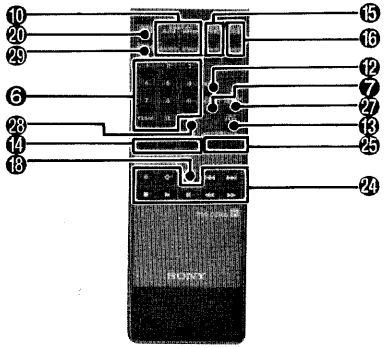
㉕ DATE button
RECORDED: Press to display the recording day of the tape being played.
PRESENT: Press to display the current time. Each time the RECORDED or PRESENT button is pressed, year, month, and day display or time, minute and second display is switched respectively.

㉖ PHONE LEVEL control
The PHONE LEVEL control adjusts the headphones volume level.

㉗ MARGIN RESET button
Press to reset the margin of peak level.

2-2 Remote Commander

2-2-1 Wireless Remote Commander (Supplied)



Buttons with the same numbers as those on the main unit have the same function.

The following functions are operated only with the remote commander.

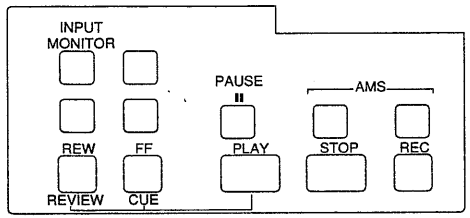
㉘ MUSIC SCAN button
Use this feature to listen to the beginning of each selection successively.

㉙ DISPLAY MODE button
Change the display mode.

Note
When using the wireless Remote Commander, set the REMOTE switch on the front panel to the WIRELESS position.

2-2-2 Wired Remote Commander (Optional)

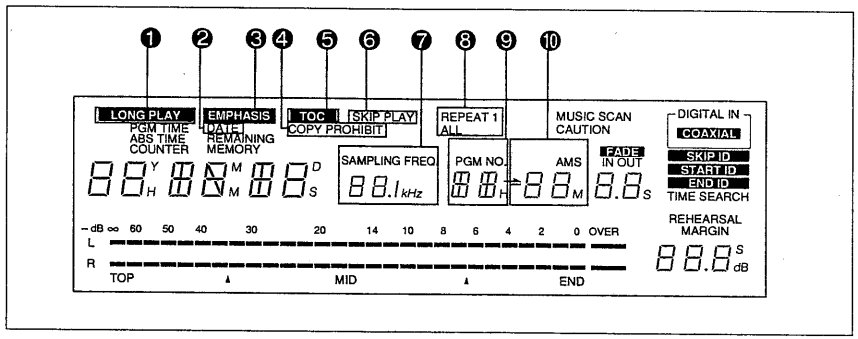
With the supplied Remote Commander seat, you can also use the optional wired Remote Commander (RM-D7100)

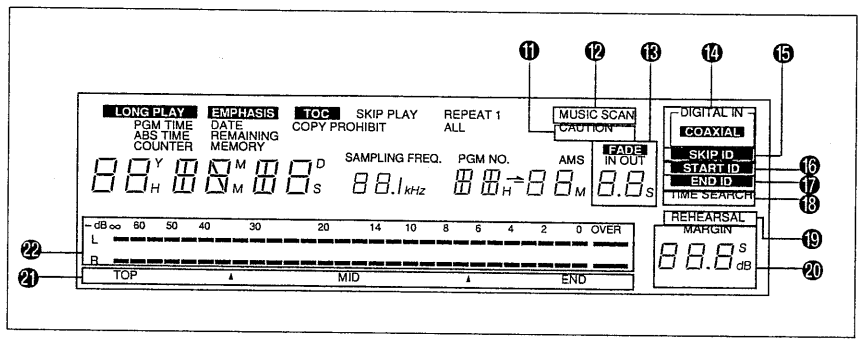


Only the functions of "❺ INPUT MONITOR button" and "㉔ Tape operation buttons" (Except for O (record muting) button can be operative with this wired Remote Commander.
When the PLAY, REC or PAUSE button is pressed or the INPUT MONITOR switch is set to the INPUT position, the indicators light respectively. Other buttons do not function.

Note
When using the wired Remote Commander, set the REMOTE swich on the front panel to the WIRED position.

2-3 Display Window





❶ LONG play mode indicator
Lights when recording or playback is being performed in the long play mode.

❷ DATE indicator
Lights when the RECORDED button is pressed to display the recording day of the tape being played. Blinks when the PRESENT button is pressed to display the current time.

❸ EMPHASIS indicator
Lights when a tape recorded with emphasis is played back, or when recording from a digital signal on which emphasis is applied. The emphasis function reduces the noise of the high frequency level by boosting the high frequency level during recording (Pre-emphasis function) and by lowering it during playback (De-emphasis function).
This unit incorporates only the de-emphasis circuit. You can play or record the emphasized signal but newly applying emphasis cannot be performed.

❹ COPY PROHIBIT indicator
Lights when recording the digital signal with the copy prohibit code.

❺ TOC (Table Of Contents) indicator
When a pre-recorded DAT cassette tape with TOC is played back, this indicator will light.

❻ SKIP PLAY indicator
When this indicator is lit during playback, the portion marked by the skip ID is skipped and playback continues from the next start ID.

❼ SAMPLING FREQ. (Sampling frequency) indicator
Indicates the sampling frequency (48 kHz, 44.1 kHz or 32 kHz) during playback or recording.

❽ REPEAT indicators
REPEAT 1: Lights when a desired selection is played back repeatedly.
REPEAT ALL: Lights when all the selections are played back repeatedly.

❾ PGM NO. indicator
Shows the program number of the selection being played.

❿ AMS (Automatic Music Sensor) indicator
Show the number of selections to be skipped ahead or behind in the AMS operation. When designating a selection directly by the numeric button and the ► button, the display shows the program number of the target selection while the selection is being searched for.

⓫ CAUTION indicator
Lights when moisture condensation occurs. If this happens, the deck stops functioning automatically. (See page 8-1.)

⓬ MUSIC SCAN indicator
Lights after the MUSIC SCAN button on the wireless remote commander is pressed to listen to the beginning of each selection successively.

⓭ FADE IN/OUT indicator
FADE IN: Blinks when recording or playback fades in.
FADE OUT: Blinks when recording of playback fades out.

⓮ INPUT selector indicator
The COAXIAL indicator lights when the INPUT selector is set to the DIGITAL position. No indicator lights when the INPUT selector is set to the ANALOG position.

⓯ SKIP ID indicator
Lights when writing or erasing a skip ID code or when the skip ID is detected during playback.

⓰ START ID indicator
Blinks when writing (for 9 or 18 seconds) or erasing a start ID code, and lights when the start ID is detected during playback.

⓱ END ID indicator
Blinks when writing (for 9 or 18 seconds) or erasing a end ID code, and lights when the end ID is detected during playback.

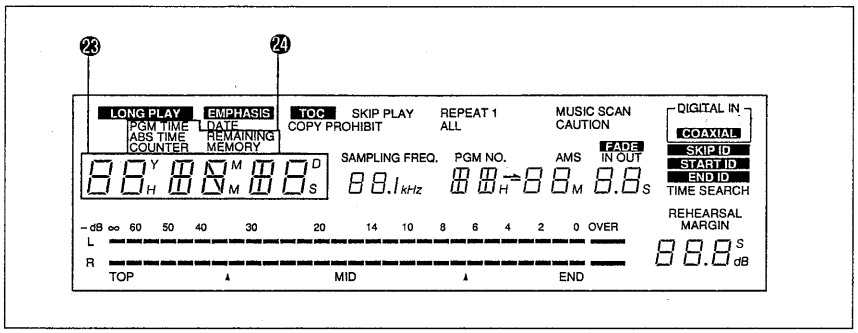
⓲ TIME SEARCH indicator
Lights when searching the desired position of a tape by using the absolute time.

⓳ REHEARSAL indicator
Lights while the rehearsal function is activated (page 5-6).

⓴ MARGIN indicator
Shows how much margin there is between the peak level of input audio signal and 0 dB.

㉑ Frequency map indicator
Bars indicating the sampling frequencies with which the tape was recorded appear on the peak level meters. (Refer to page 6-4.)

㉒ Peak level meters
Indicate the peak value of the audio signal being recorded when the INPUT MONITOR switch is set to INPUT or the peak value of the audio signal recorded on the tape when the INPUT MONITOR switch is set to REPRO.



㉓ Time indicator
Indicates the tape running time, absolute time, elapsed time of the current selection, remaining time or recording day. Each time the COUNTER MODE button is pressed, the display is changed.

㉔ REMAINING (remaining time):
Lights when the counter shows the remaining time of the tape.

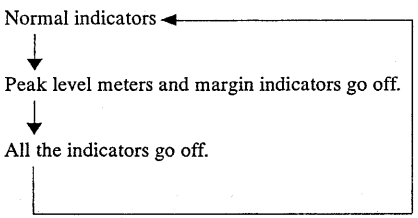
PGM TIME (program time):
Lights when the counter shows the elapsed time of the current selection.

ABS TIME (absolute time) indicator:
Lights when the counter shows the elapsed time from the beginning of a tape.

COUNTER indicator:
Lights when the counter shows the tape running time.

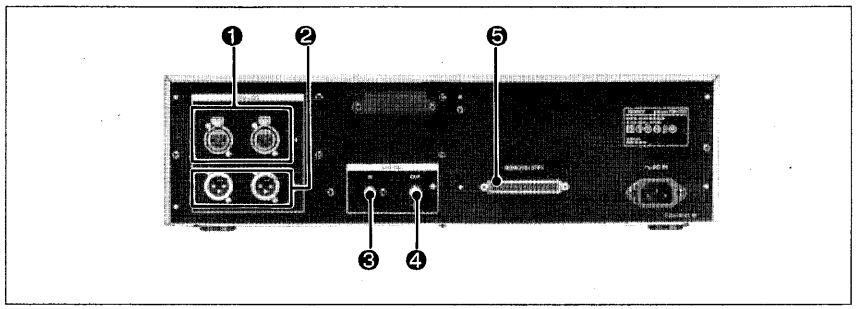
MEMORY indicator:
Lights when the MEMORY funciton can be performed in the COUNTER mode.

To turn off the display window
When the power is turned on, the display window also is turned on. During recording or playback, all display or some parts of the display can be turned off.
Each time the DISPLAY MODE button on the Wireless Remote Commander is pressed, the indicators change as follows:



To change the brightness of the display window
While pressing COUNTER MODE, press one of the numeric buttons 1, 2 and 3. The greater number pressed, the darker the display window becomes.

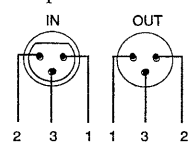
2-4 Rear Panel



❶ ANALOG IN jacks (CH 1 (L)/CH 2 (R)) (XLR type connector)
For analog audio singal input.

❷ ANALOG OUT jacks (CH 1 (L)/CH 2 (R)) (XLR type connector)
For analog audio signal output.

1	GND
2	HOT
3	COLD

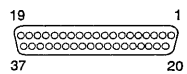


❸ DIGITAL IN jack (Phono jack)
For digital audio input of professional-use digital signal (IEC 958-TYPE I).
Consumer-use digital audio signal (IEC 958-TYPE II) can also be input.

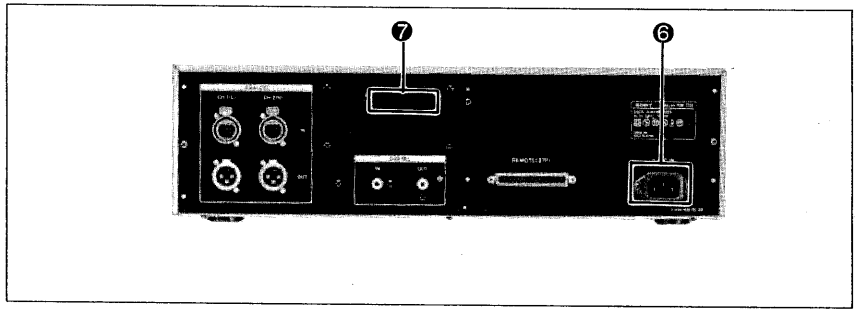
❹ DIGITAL OUT jack (Phono jack)
For digital audio output of professional-use digital signal (IEC 958-TYPE I).

❺ REMOTE jack
37-pin D-SUB jack for Wired Remote Commander. To be connected to the optional Wired Remote Commander (RM-D7100).

Pin number

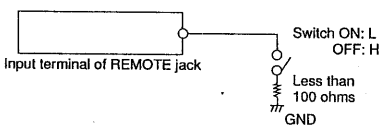


Pin NO.	Signal	Pin NO.	Signal
1	GND	20	GND
2		21	L-STOP COMMAND IN
3		22	L-FF COMMAND IN
4	L-PLAY STATUS OUT	23	L-PLAY COMMAND IN
5	L-STANDBY (PAUSE) STATUS OUT	24	L-REW COMMAND IN
6	L-INPUT MONITOR STATUS OUT	25	L-STANDBY (PAUSE) COMMAND IN
7	L-REC STATUS OUT	26	L-INPUT MONITOR COMMAND IN
8		27	L-REC COMMAND IN
9		28	L-ID NEXT (AMS) COMMAND IN
10		29	L-ID PREVIOUS (AMS) COMMAND IN
11			
12		30	
13		31	
14		32	
15		33	
16		34	
17		35	
18		36	
19	+ 5V OUT	37	



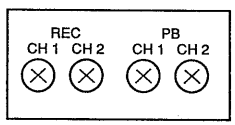
Outputs L: Less than 0.8 V (25 mA I max)
H: Open collector (+ 5 V, 10 kilohms, pull-up)
Inputs L: GND short (Less than 100 ohms)
H: Open collector (High impedance)
+5 V output:
0.1 A max.

Note
Only the following signal can be input to the REMOTE jack.



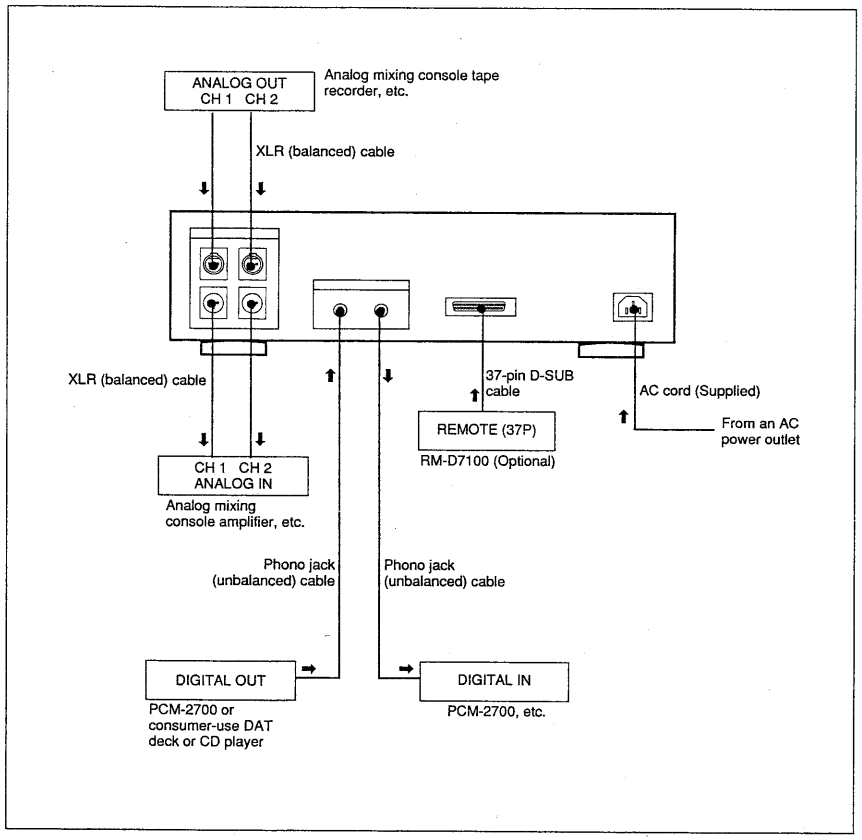
❻ AC IN inlet
To be connected to the supplied AC power cord.

❼ RECORD/PLAYBACK controls (Level control)
Remove the cover on the rear panel so that the level of recording input/playback output in each channel can be adjusted with the screw driver.



3-2 Connection

Notes on connection
- Before connecting the unit, turn off the power switch.
- The cable connectors should be fully inserted into the jacks. Loose connection may cause hum and noise.



3-3 Preparation

3-3-1 Clock Setting

This unit employs a built-in clock to keep track of the current date and time. Once you set the date and time, this information will be recorded on the tape along with the audio signal during recording. This function is very convenient because it allows you to check when the tape was recorded when playing the tape later.

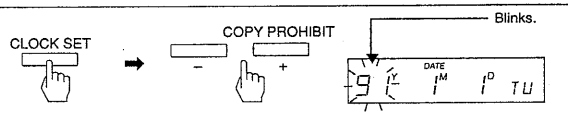
Setting the date and time

Example: Setting the clock to 10:30 a.m., July 4, 1991 (Thursday)

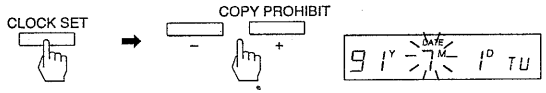
Setting the date

1 Display the current date.

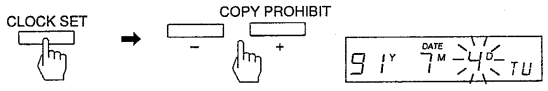
2 Set the year.



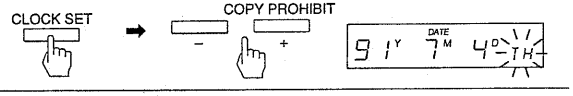
3 Set the month.



4 Set the day.



5 Set the day of the week.

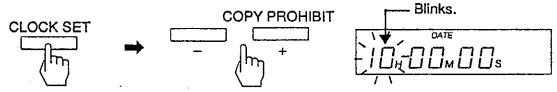


6 Complete the setting procedure.

Setting the time

1 Display the current time.

2 Set the hour.



3 Set the minutes.

4 Set the seconds to 0.

5 Start the clock simultaneously with the signal from a timecast (telephone, etc.).

To confirm the date or time
Press the PRESENT button to display the date or time. One press displays the date and two presses displays the time. To return to the original counter display, press the COUNTER MODE button.

Time display
The time is displayed in 24-hour format.
Midnight and noon are displayed as follows:
Midnight: 0:00
Noon: 12:00

The day of the week is displayed as follows.

Sunday	SU
Monday	MO
Tuesday	TU
Wednesday	WE
Thursday	TH
Friday	Fr
Saturday	SA

Built-in clock
This unit's built-in clock operates using a quartz oscillator, and time variations caused by changes in temperature, etc., may accumulate. For precise recording of hour, minute, and second data by the built-in date function, it is recommended to set the clock every time the recording is performed.

Precautions when setting the time
- Set the time while the tape is stopped.
- Although this unit's clock automatically adjusts for leap years and long and short months, do not enter a date which does not exist.

Note
This unit uses a back-up battery to keep the clock running when the power is turned off. The life of the battery under normal use is approximately five years. When the battery starts to run down, the clock will stop operating normally. When this occurs, have the battery replaced at your dealer or nearest Sony Service Center (a battery replacement fee is required).

3-3-2 Adjusting Analog Input/Output Level

The analog input/output reference level during recording or playback can be adjusted on this unit.
The input/output reference level is factory set to +4 dBs at -20 dB from the full bit level. The adjustable range of the reference level is +8 dBs to -12 dBs.

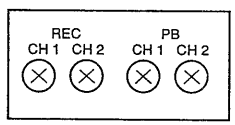
Procedure of adjusting analog input/output level

(1) Remove the cover of the RECORD/PLAYBACK controls on the rear panel.

(2) Playback the tape recorded in the level at -20 dB from the full bit. Adjust the PLAYBACK (CH 1/CH 2) volume so as to obtain the desired levels at ANALOG OUT jack.

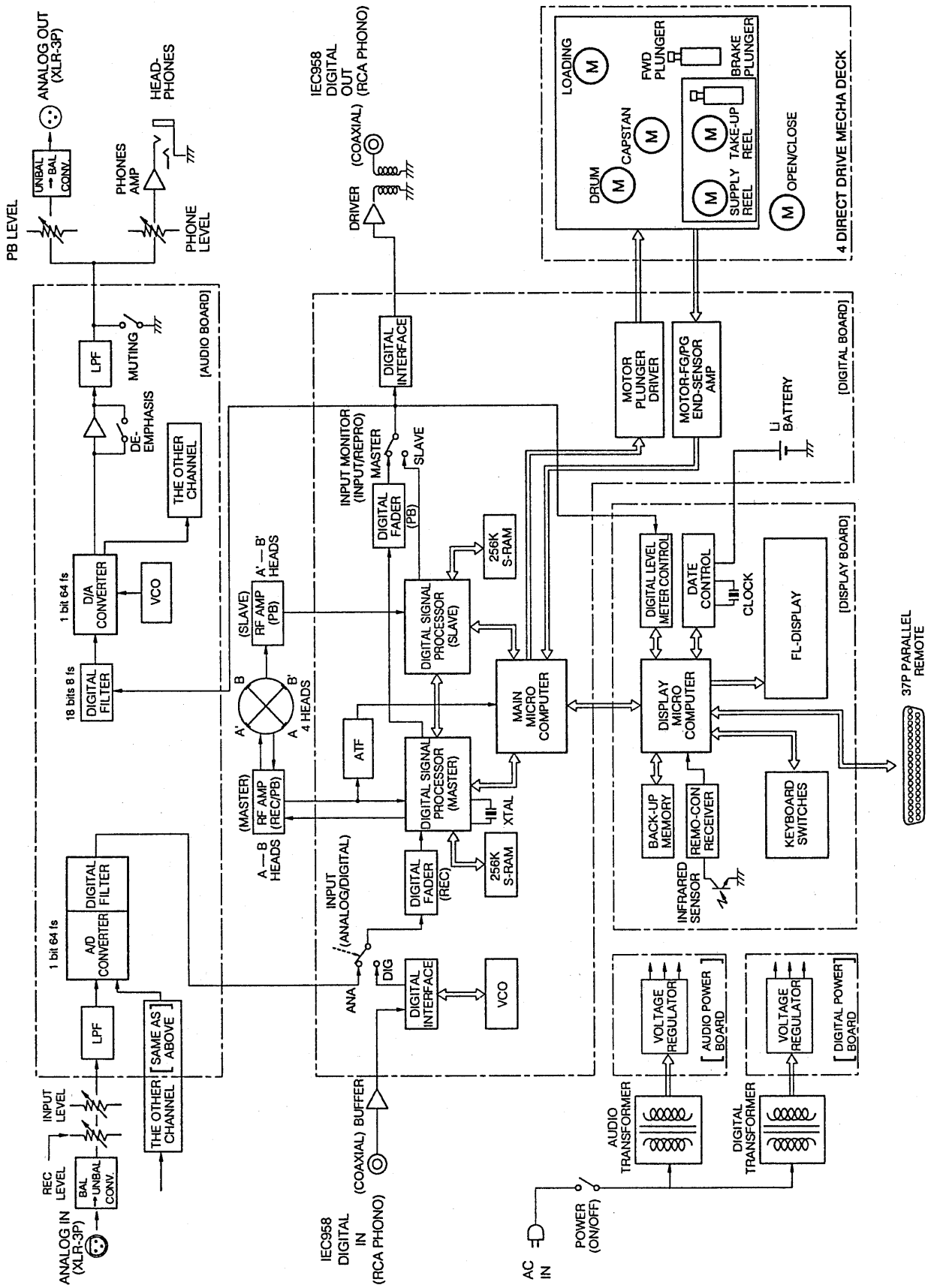
(3) Set the INPUT LEVEL control on the front panel to the 10 (MAX) position, input an audio signal to the ANALOG IN Jacks and adjust the RECORD (CH 1/CH 2) controls so as to obtain the desired levels at ANALOG OUT jack.

(4) Put the cover of the controls.



- Adjust the RECORD/PLAYBACK controls with + driver and be sure not to turn the controls forcibly nor to touch any other parts than the RECORD/PLAYBACK controls.

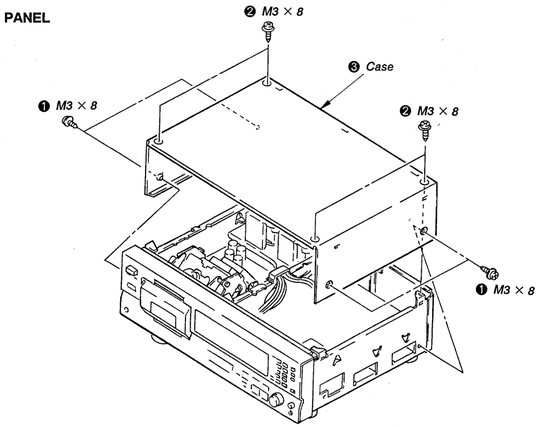
BLOCK DIAGRAM



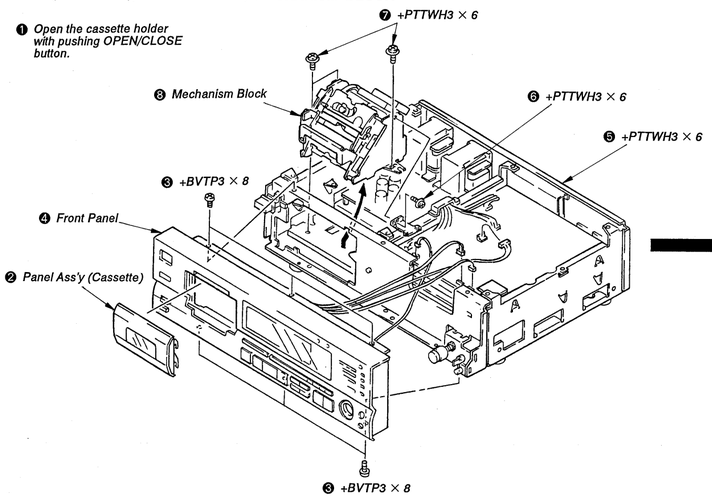
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

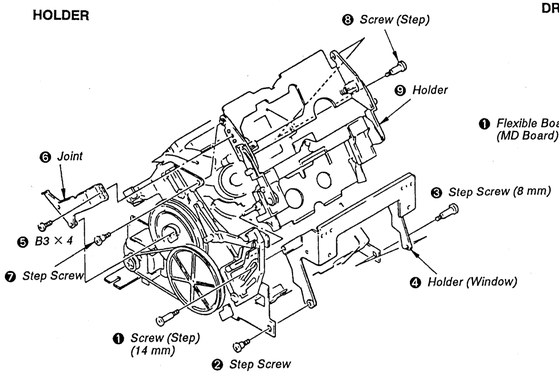
CASE, SIDE PANEL



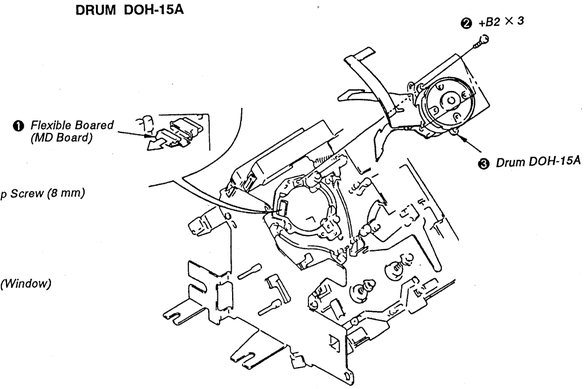
PANEL (CASSETTE), FRONT PANEL, MECHANISM BLOCK


❶ Open the cassette holder with pushing OPEN/CLOSE button.
❼ +PTTWH3 × 6
❽ Mechanism Block
❻ +PTTWH3 × 6
❺ +PTTWH3 × 6
❸ +BVTP3 × 8
❹ Front Panel
❷ Panel Ass'y (Cassette)
❸ +BVTP3 × 8

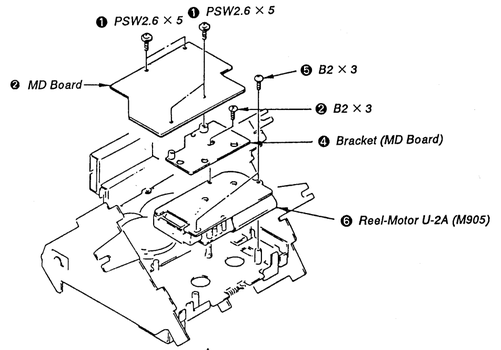
HOLDER



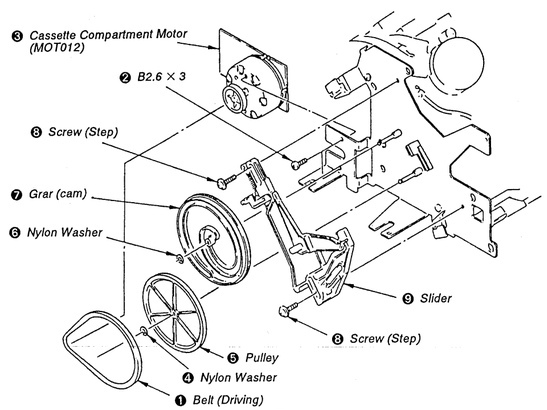
DRUM DOH-15A



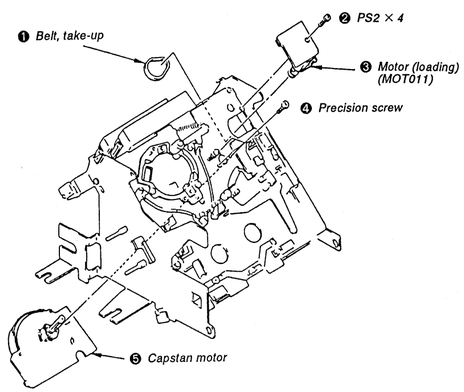
MD BOARD, REEL MOTOR U2-A (M905)



CASSETTE COMPARTMENT MOTOR (MOTO12), PULLEY, GEAR (CAM), SLIDER



LOADING MOTOR (MOTO11), CAPSTAN MOTOR U-17A (M902)



SECTION 4
ADJUSTMENTS

Notes When Making Adjustments

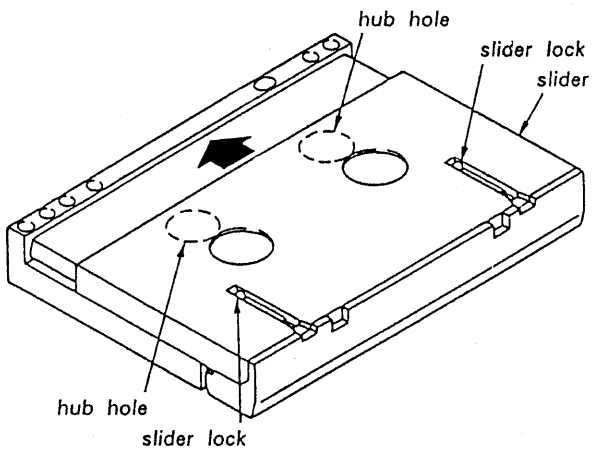
1. Adjustments should be performed in the order listed.

2. Use the following test tapes :
   TY-7111 (8-909-812-00) ····· Level
   TY-7252 (8-909-822-00) ····· Tracking
   TY-7551 (8-909-814-00) ····· Functions
   TY-30B (8-892-358-00) ····· Blank

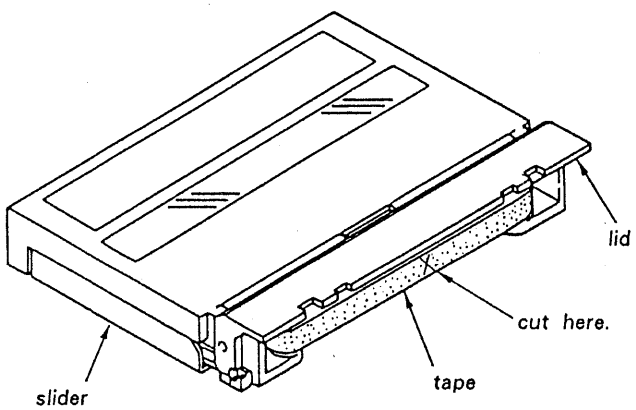
   Use the following torque meter :
   TW-7131 (8-909-708-71) ····· FWD

3. Switches and controls should be set as follows unless otherwise specified.
   TIMER switch : OFF
   REC MODE switch : LONG
   INPUT switch : COAXIAL
   REC LEVEL control : Min.
   PHONES LEVEL control : Min.

4. Creating an end sensor cassette
   (1) Press the tape slider lock and move the slider in the direction indicated by the arrow.



   (2) Open the lid and cut the tape.



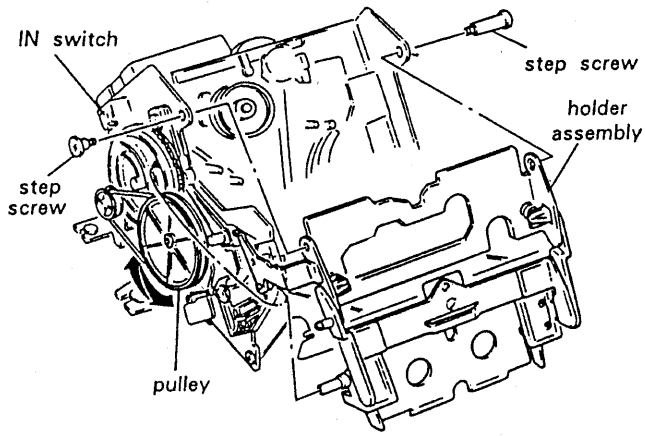
   (3) Turn the hubs until the tape is completely inside the cassette (both T and S sides).
   The end sensor cassette for end sensor adjustment is now ready for use.

5. Be careful not to move RV951 and RV952 on the RF AMP board in the mechanism assembly.

6. To adjust the tape path and guides, remove the holder assembly as shown in the diagram and use the DAT holder jig (J-2000-002-A). This will make it easier to perform adjustments.

- First turning the pulley counterclockwise to put it in loading out status will make removal and reattachment of the holder assembly easier.

- To perform adjustments, turn the pulley clockwise to put it in loading in status, load the cassette tape and set the IN switch to the ON position.



7. Test mode
   To set to the test mode, short-circuit between Pin ⑦ (XTEST) and Pin ⑥ (GND) of CN553 on the digital board. At this time, "TEST" letters turn on red on the fluorescent display. And at the same time, turning on the date on the flouorescent display, it becomes to the torque measurement mode.
   Test mode (Short-circuit between XTEST and GND)
   ① Turn off the date on the fluorescent display.
   (Press COUNTER MODE key)
   - S2, T2, F guides Adjustment
   - End Sensor Adjustment
   - Tape Path Adjustment
   - DPG Adjustment
   - ATF Pilot Adjustment

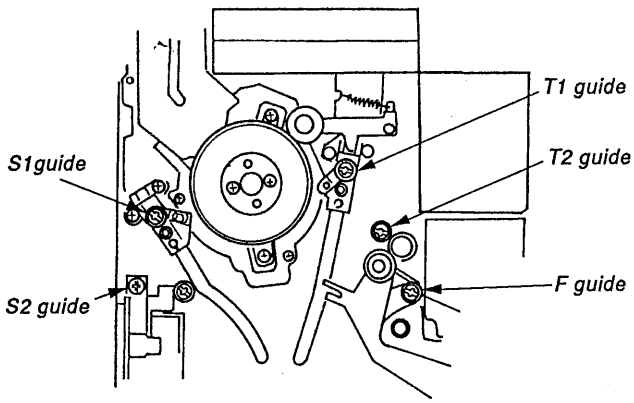
   ② Turn on the date on the fluoresent display.
   (Press DATE-RECORD key)
   - FWD Torque Adjustment
   - FWD Back-Tension Adjustment

   } Torque Measurement Mode

   To release the test mode, release the short-circuit point between XTEST and GND,
   After the adjustments, be sure to release the test mode.

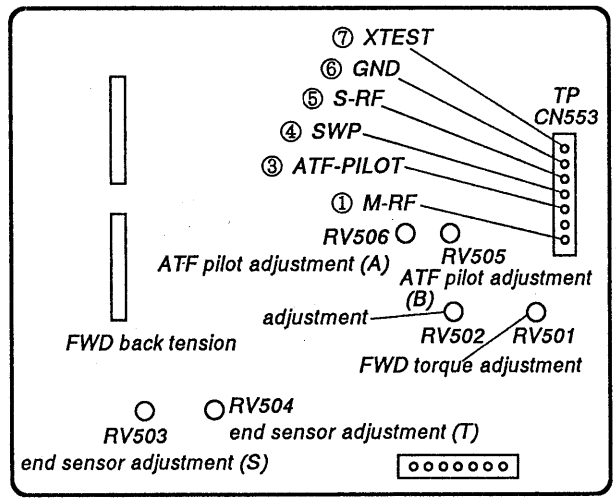
Adjust Parts Location

– Mechanism assembly –



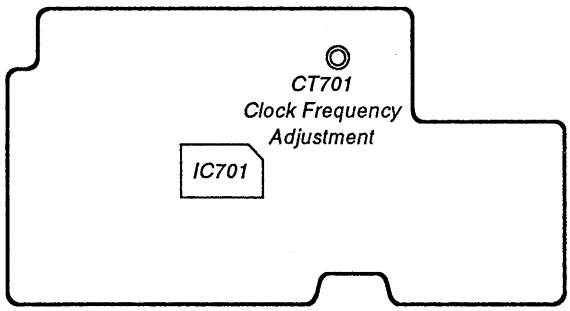
– Digital Board –

– SIDE B –



– Control Board –

– SIDE A –



4-1. MECHANICAL ADJUSTMENTS

After replacing the drum or related parts, adjust the S2, T2 and F guides and then perform the tape path (× 1.5 FWD mode) fine adjustment of electrical adjustments.,

S2, T2 Guide/F Guide Adjustment

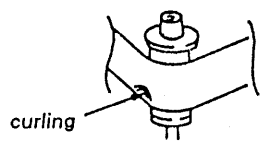
Adjustment Procedure :

1. Put the set into the test mode and load test tape TY-7252 (8-909-822-00).

2. Set the REC MODE switch to STANDARD (ATF : OFF) and press the AMS ⏭ key.

Confirm there is no curling at the upper or lower flange of S2, T2, or F guides.
When there is curling, return higher S2, T2, F guides and adjust by screwing in.

* Curling :



"Curling" refers to distortion on the tape during FWD operation. It can be identified by directing a light at the tape.

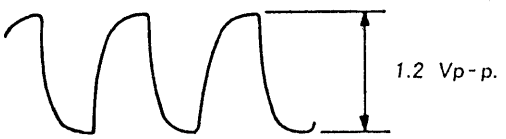
4-2. ELECTRICAL ADJUSTMENTS

End Sensor Adjustment

Perform the following adjustment when the holder has been removed or part of the mechanism deck section replaced.

Adjustment Procedure:

1. Connect an oscilloscope to CN554 pin ⑤ (SEND) (supply side) and CN554 pin ⑥ (TEND) (take-up side) on the digital board.
2. Load an end sensor cassette and put the set into the STOP (■) mode.
3. Adjust RV503 (supply side) and RV504 (take-up side) on the main board so that the oscilloscope waveform p-p value is 1.2 Vp-p.



Adjustment Point: digital board

FWD Torque Adjustment

Adjustment Procedure :

1. Put the set into the test mode and load the FWD torque meter TW-7131 (8-909-708-71).
2. Put the set into the PLAY (▶) mode.
3. Adjsust RV501 so that the FWD torque value (take-up side rewinding torque) is between 10 – 15 g•cm (0.14 – 0.21 oz•inch).
4. Confirm that the value indicated by the torque meter is maintained for one full cycle.

Adjustment Point: digital board

FWD Back Tension Check

Check Procedure :

1. Put the set into the test mode and load the FWD torque meter TW-7131 (8-909-708-71).
2. Put the set into the PLAY (▶) mode.
3. Adjust RV502 so that the back tension (supply side) is between 8 – 9 g-cm (0.11 – 0.13 oz•inch).
4. Confirm that the value indicated by the torque meter is maintained for one full cycle.

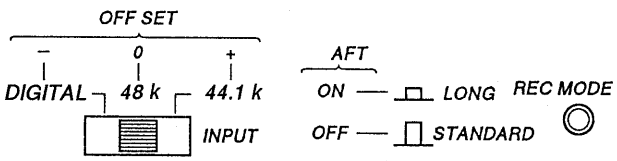
Tape Path Fine Adjustment (× 1.5 FWD Mode)

Perform the following adjustment when the drum has been replaced.

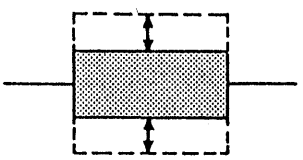
Adjustment Procedure:

1. Connect an oscilloscope CH-1 to CN553 pin ① (M-PF) and CH-2 to CN553 pin ④ (SWP) on the digital board.
2. Put the set into the test mode and load test tape TY-7252 (8-909-822-00).
3. Press the AMS (▶▶|) key.

Each part of switches on Test Mode.

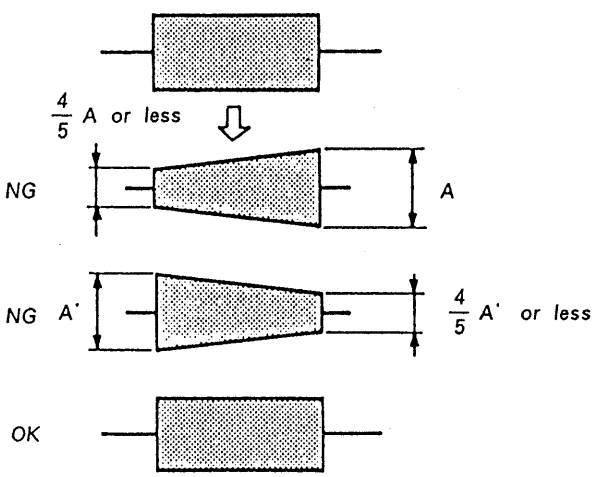


4. With the REC MODE switch set to STANDARD (ATF: OFF) and the INPUT switch set to ANALOG or COAXIAL (OFFSET: + or –), fine adjust the S1 and T1 guides so that the oscilloscope RF signal waveform remains the same when high-low is repeated.

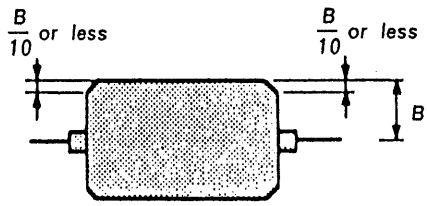


* Finish the adjustment by screwing in, and when there is curling at the upper or lower flange of S2, T2, or F guides, perform the guide adjustment.

5. Check the RF signal waveform with the REC MODE switch set to LONG (ATF: ON) and the INPUT switch set to ANALOG or COAXIAL (OFFSET: + or –).



6. Check the RF signal waveform with the REC MODE switch set to LONG (ATF: ON) and the INPUT switch set to OPTICAL (OFFSET: 0)
   (1) Confirm that the RF signal waveform peak value is 60 mV or more.
   (2) Confirm that the undershoot level of the RF signal waveform's flat portion is within 10%.



7. When the measured values are not within the above tolerances, repeat items 3 - 6 above.

Adjustment Point : mechanism assembly

DPG Adjustment

Perform the following adjustment without fail when the drum has been replaced.

Adjustment Procedure :

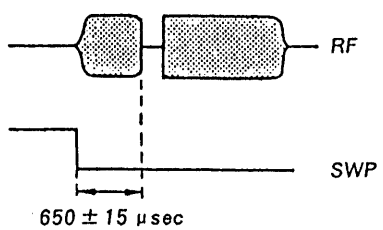
1. Connect oscilloscope CH-1 to TP (RF) and CH-2 to TP (SWP) on the main board.(Use CH-2 as the trigger. When the CH-2 signal is inverted, the trailing edge can be used for synchronization.)

2. Put the set into the test mode and load test tape TY-7252 (8-909-822-00).

3. Set the REC MODE switch to LONG (ATF : ON) and the TIMER switch to OFF (OFFSET : 0).

4. Press the AMS (⏭) key.

5. Press the ⏮ and ⏭ keys as appropriate so that the gap between the oscilloscope SWP and RF signals becomes 650 ± 15 μsec.(Hold the ⏮ and ⏭ keys down for more than 1 second to perform rough adjustment. Hold them down for approximately 0.2 seconds for fine adjustment.)



ATF Pilot Adjustment

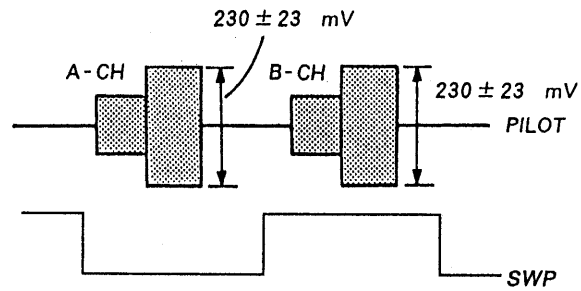
Perform this adjustment after cleaning the heads with a cleaning cassette.

Adjust Procedure:

1. Connect oscilloscope CH-1 to CN553 pin ① (ATF-PILOT) and CH-2 to CN553 pin ④ (SWP) on the digital board. (Use CH-2 as the trigger.) When the CH-2 signal is inverted, the trailing edge can be used for synchronization.)

2. Put the set into the test mode and load test tape TY-7252 (8-909-822-00).

3. Put the set into the PLAY (▶) mode and adjust RV505 (B-CH) and RV506 (A-CH) on the main board so that the oscilloscope PILOT waveform P-P value is 230 ± 23 mV.



Adjustment Point: digital board

4-3. CHECK AND ADJUSTMENTS FOR DATE FUNCTION

Clock IC Back-up Check

- When there is the short-circuit position on the pattern around the lithium battery (BAT501) or the clock IC (IC712) or disconnecting CN573 on removing the front panel assembly the clock is reset.

(In spite of pressing PRESET button, the date indication becomes "_ _Y _ _M _ _D " " _ _H _ _M _ _S")

At this time, check the back-up function by the procedures given below.

(1) Connect DC voltmeter to CN554 pin ① (BATT+) and pin ② (BATT −) on the digital board.

(2) When the power is off, the voltage value of the item (1) should be less than +30 mV.

(When the voltage value becomes +30 mV or more, Check around IC712 or replace IC712.)

(3) When the power is on, the voltage value of the item (1) should be less than 0 mV (− (minus) indication).

(When the voltage value becomes + (plus) indication, Check around D718 or replace D718.)

(4) When the above voltage values are normal, set the preset date and time (year, month, day, day of the week, hour, minute, second) according to the instruction manual.

(5) After setting the time on the item (4), turn power off and turn power on several seconds later, and check the clock works normally.

Back-up Battery Replacement

The life of the back-up battery under normal use (normal temperature, normal humidity) is approximately ten years or more. (On the instruction manual, described "approximately five years".)

Be carefull about the following points on the battery replacement.

- Repair the cause of the battery wastage by performing mentioned above "Clock IC Back-up Check".
- The open-circuit voltage of the replaced battery is 3.0 V or more as the new one, and when it is 2.0 V or less, it is completely consumed, replace it with new one.
- After the battery replacement, perform "Clock IC Back-up Check" again and set the time*.

* Time setting procedure described on page 9.

Clock Frequency Adjustment

Note:

- On normal repair, this adjustment is not neccesory. Don't turn the trimmer capacitor CT701.
- Only when needing this adjustment (X702 replacement or so on), perform in the order given.
- Use the frequency counter with six digits or more.

Adjustment Procedure:

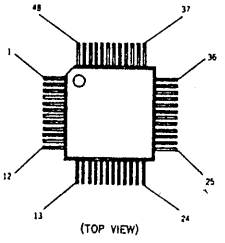
1. Connect a frequency counter to the test land "OSC FREQ" on the display board.
2. Turn power on and adjust with CT701 so that the reading on the frequency counter becomes 2048.00 ± 0.01 Hz .(in normal temparature)
3. Perform "Clock IC Back-up Check" described above.

SECTION 5
DIAGRAMS

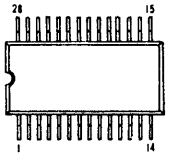
• SEMICONDUCTOR LEAD LAYOUTS

A1QH3020S

CXA1045Q-Z
CXA1364R



CXA1046M
CXK58257M-12L



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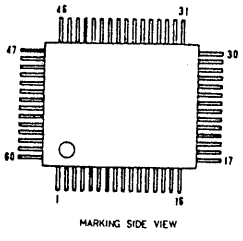

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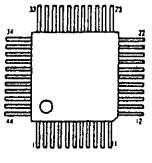

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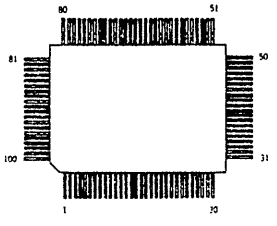
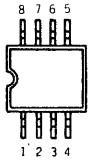


CXK1011M
LM358M
LM393M



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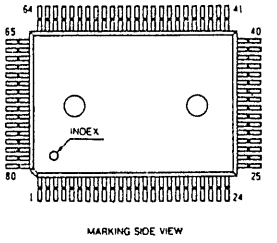
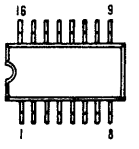
MSC62408-027GS-K



CX20115A



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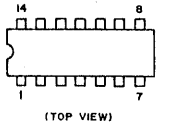
SN74HC393N
SN74LS624N



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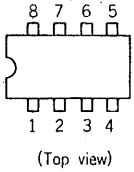
M5238P
NE5532P
NJM4556D-D
μPC358C



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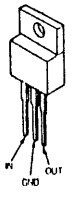
M5F7808
TA7805S
μPC2405HF



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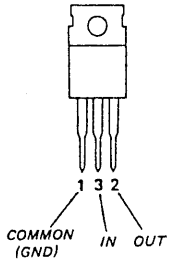

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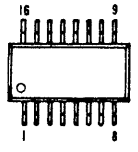
MSM6338MS-K



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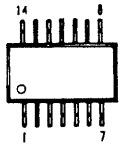

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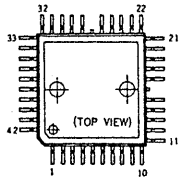

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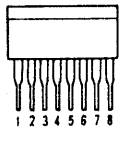

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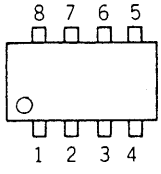

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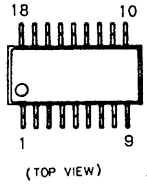

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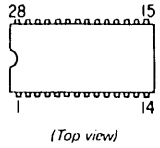

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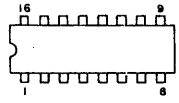

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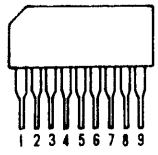

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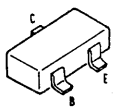

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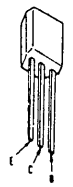

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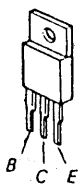

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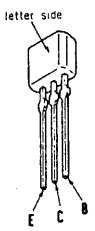

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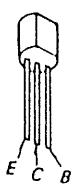

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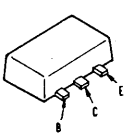

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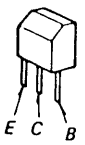

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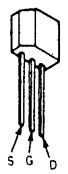

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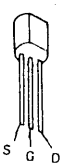

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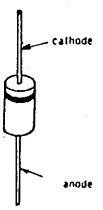

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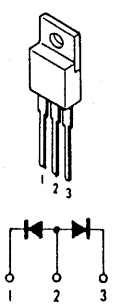

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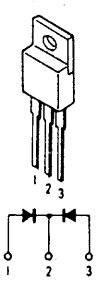

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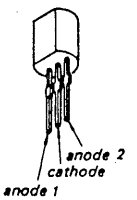

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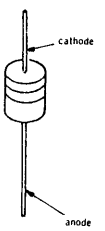
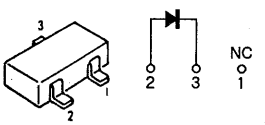


SB05-05CP



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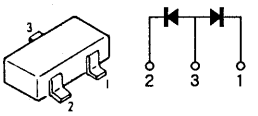

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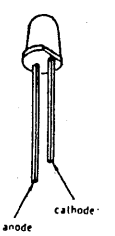

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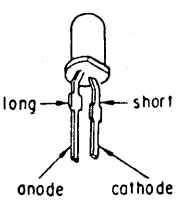
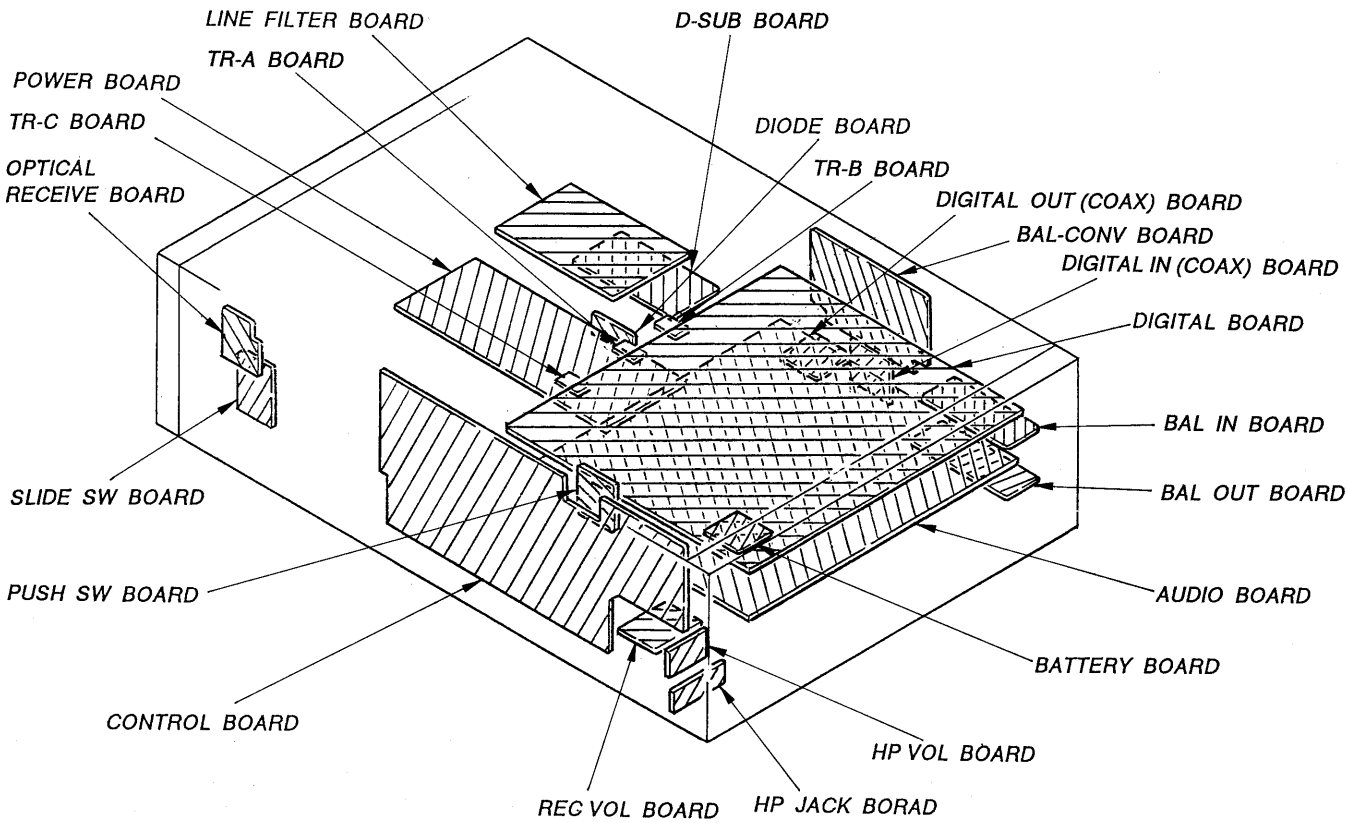
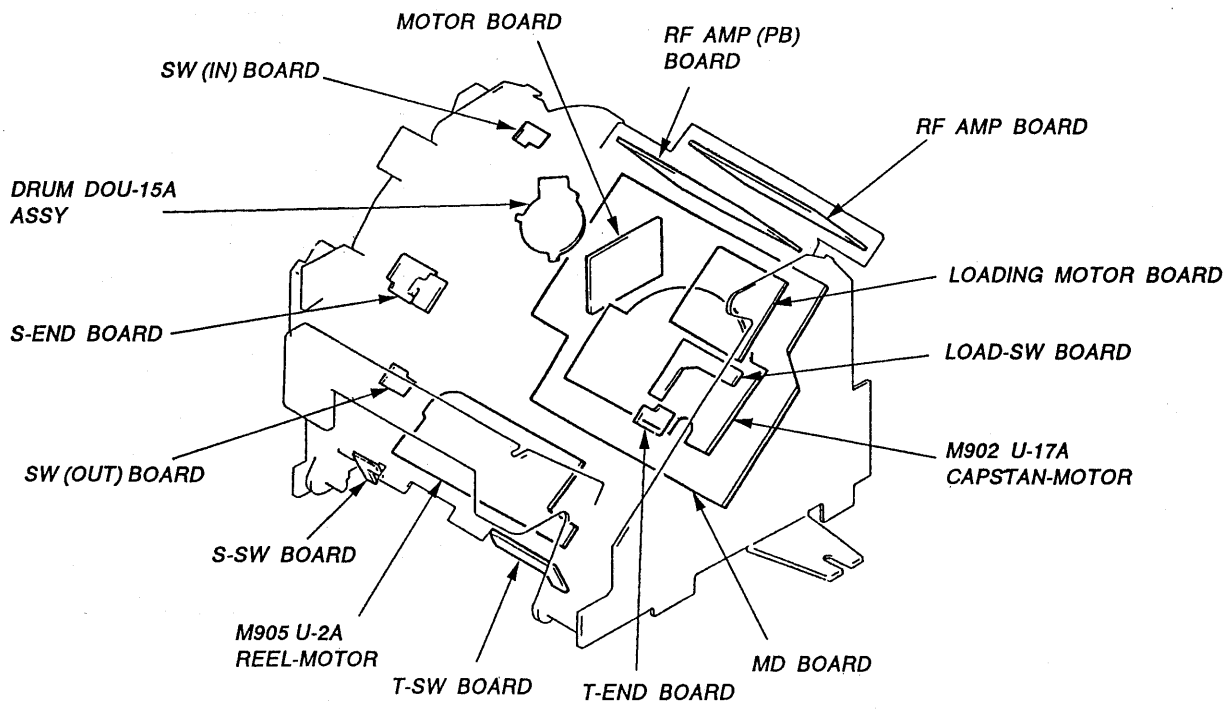


• **CIRCUIT BOARDS LOCATION**



(DATM-51)



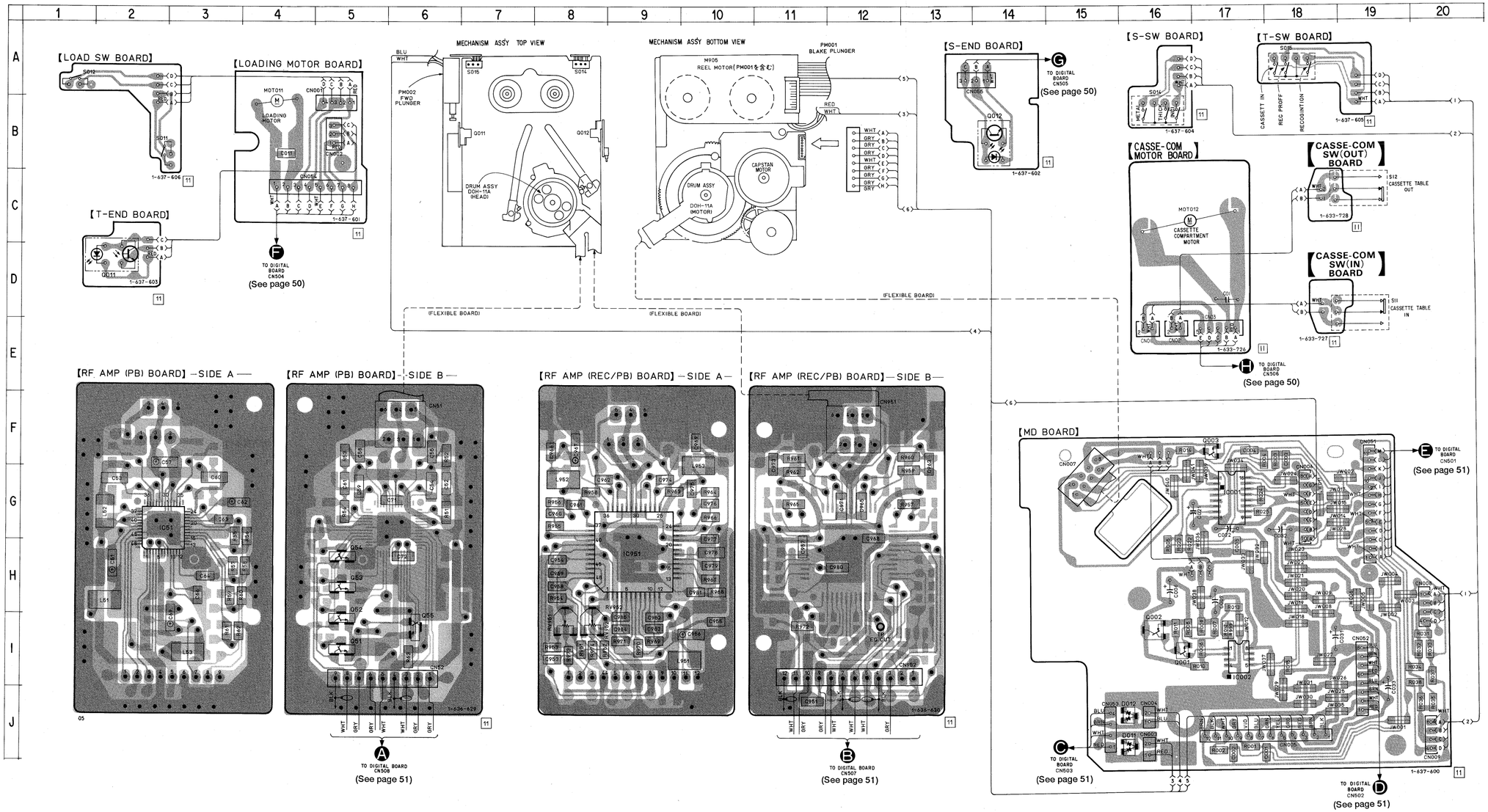
5-1. PRINTED WIRING BOARDS – RF/MD SECTION –

• **Semiconductor Location**

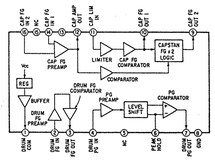
Ref. No.	Location
D011	J-16
D012	J-16
IC51	G-2
IC001	G-17
IC002	I-17
IC951	H-9
Q51	I-5
Q52	I-5
Q53	H-5
Q54	H-5
Q55	I-6
Q001	I-16
Q002	I-16
Q003	F-17
Q011	D-2
Q012	B-14

Note on Printed Wiring Board:

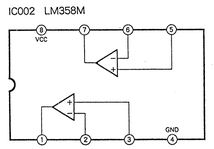
- ○——: parts extracted from the component side.
- ●——: parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ○—○ : Jumper wire connected to the ground pattern on the component side.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.



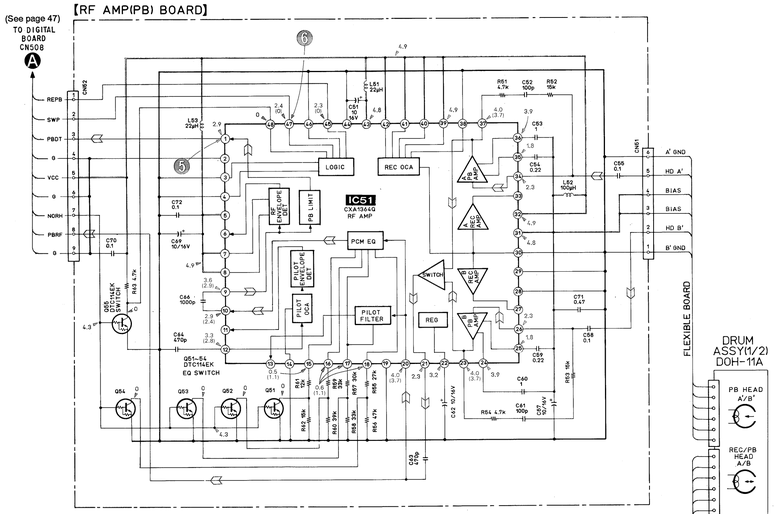
IC001 CX20115A



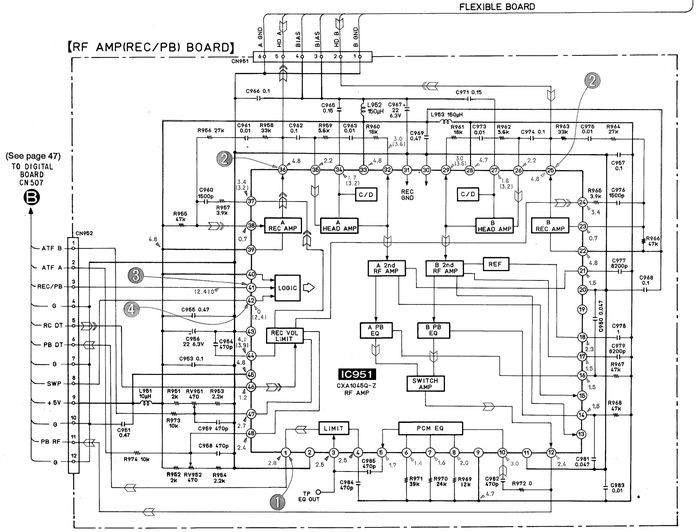
IC002 LM358M



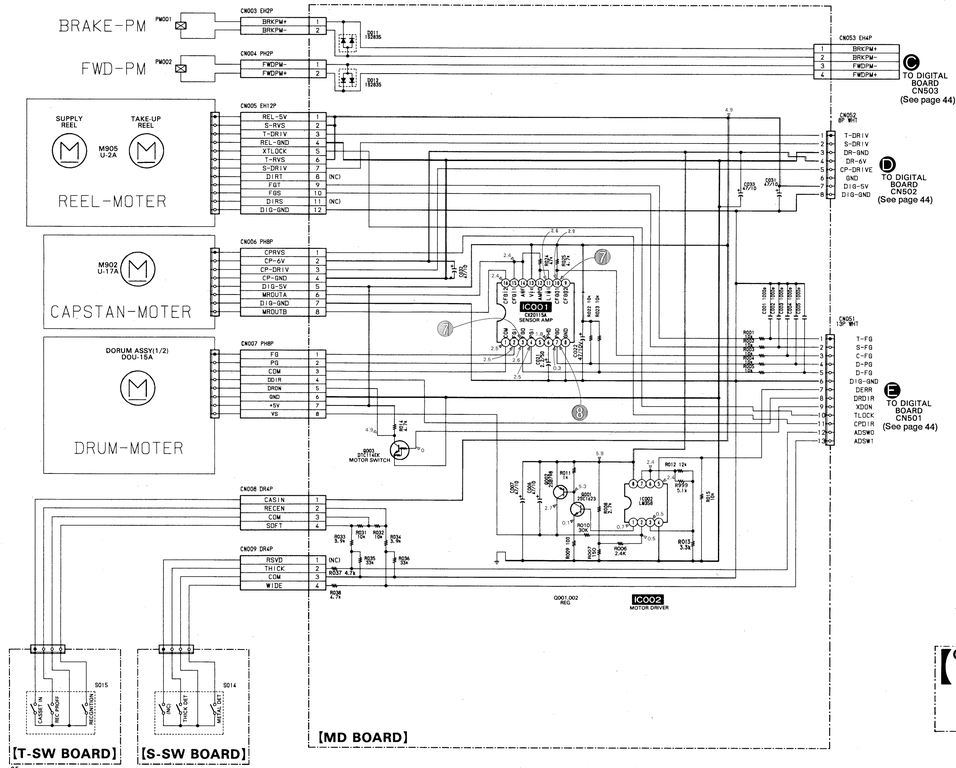
【RF AMP(PB) BOARD】

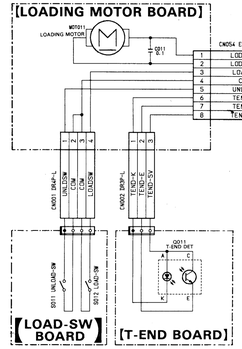


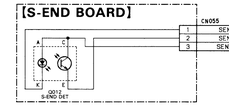
【RF AMP(REC/PB) BOARD】

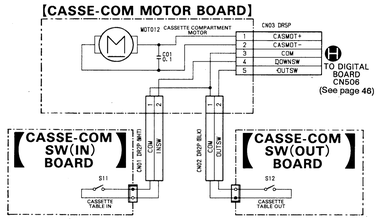


FLEXIBLE BOARD









Note on Schematic Diagram:

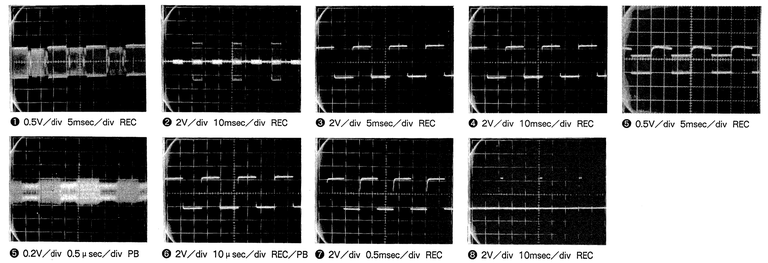
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ⚠ : fusible resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

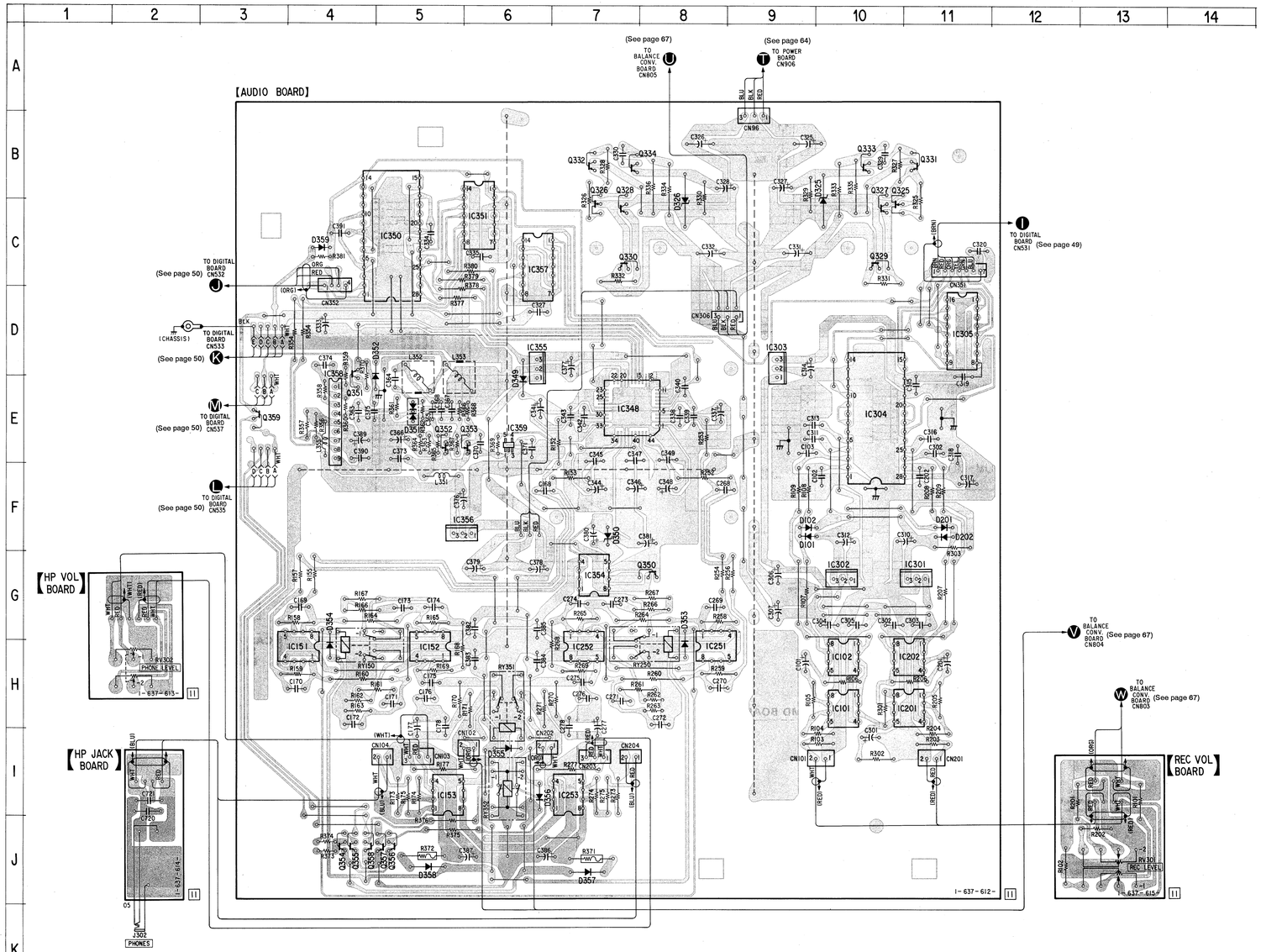
- ▭▭▭ : B + Line.
- ▭▭▭ : B – Line.
- ▭ : adjustment for repair.

- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : REC/PLAY
  ( ) : PLAY
- Voltages are taken with a VOM (input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ▷▷ : PB
  ▷▷ : REC

• RF, MD Section Waveforms



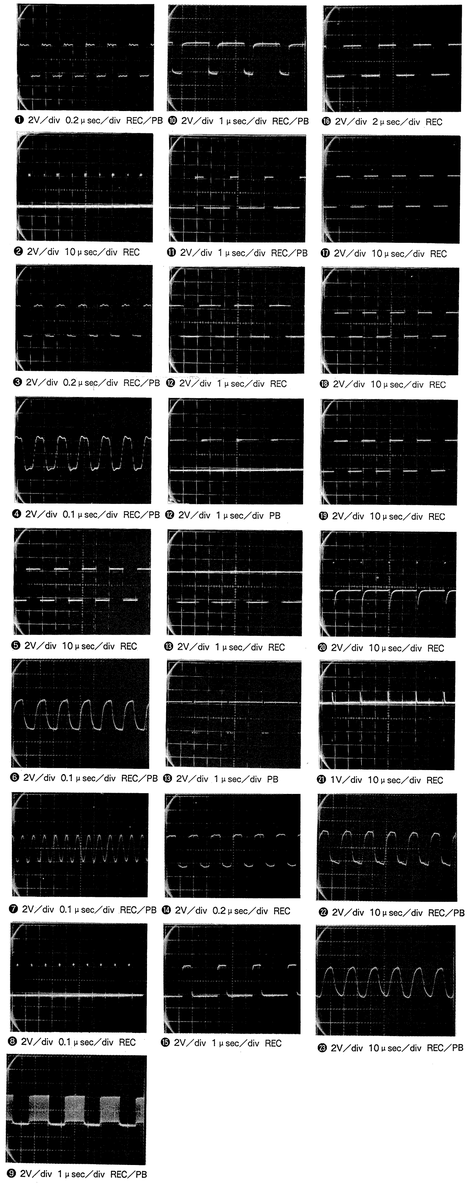
❶ 0.5V/div 5msec/div REC
❷ 2V/div 10msec/div REC
❸ 2V/div 5msec/div REC
❹ 2V/div 10msec/div REC
❺ 0.5V/div 5msec/div REC
❺ 0.2V/div 0.5 μ sec/div PB
❻ 2V/div 10 μ sec/div REC/PB
❼ 2V/div 0.5msec/div REC
❽ 2V/div 10msec/div REC


【AUDIO BOARD】
(See page 67)
TO BALANCE CONV. BOARD CN805
(See page 64)
TO POWER BOARD CN906
TO DIGITAL BOARD CN531 (See page 49)
TO DIGITAL BOARD CN532 (See page 50)
TO DIGITAL BOARD CN533 (See page 50)
TO DIGITAL BOARD CN537 (See page 50)
TO DIGITAL BOARD CN535 (See page 50)
TO BALANCE CONV. BOARD CN804 (See page 67)
TO BALANCE CONV. BOARD CN803 (See page 67)
【HP VOL BOARD】
【HP JACK BOARD】
【REC VOL BOARD】
PHONES
1-637-612-11
1-637-613-11
1-637-614-11
1-637-615-11

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	F-9	IC348	E-7
D102	F-9	IC349	E-5
D201	F-11	IC350	C-3
D202	F-11	IC351	C-4
D325	B-10	IC354	G-7
D326	B-8	IC355	D-6
D349	D-6	IC356	E-5
D350	F-7	IC357	C-6
D351	C-5	IC358	B-5
D352	C-6	IC359	E-6
D353	H-8	IC360	C-6
D354	H-4	IC361	B-4
D355	I-6		
D356	I-6	Q325	C-10
D357	J-7	Q326	B-7
D358	J-5	Q327	C-10
D359	D-4	Q328	B-7
		Q329	C-10
IC101	H-10	Q330	C-7
IC102	H-10	Q331	B-11
IC151	H-4	Q332	B-7
IC152	H-5	Q333	B-10
IC153	I-5	Q334	B-7
IC201	H-10	Q350	G-8
IC202	H-10	Q351	B-6
IC251	H-8	Q352	C-5
IC252	H-7	Q353	D-5
IC253	I-7	Q354	J-4
IC301	G-11	Q355	J-4
IC302	G-10	Q356	J-5
IC303	D-9	Q357	J-5
IC304	E-10	Q358	J-4
IC305	D-11	Q359	E-3

• Audio Section Waveforms


❶ 2V/div 0.2μsec/div REC/PB
❷ 2V/div 10μsec/div REC
❸ 2V/div 0.2μsec/div REC/PB
❹ 2V/div 0.1μsec/div REC/PB
❺ 2V/div 10μsec/div REC
❻ 2V/div 0.1μsec/div REC/PB
❼ 2V/div 0.1μsec/div REC/PB
❽ 2V/div 0.1μsec/div REC
❾ 2V/div 1μsec/div REC/PB
❿ 2V/div 1μsec/div REC/PB
⓫ 2V/div 1μsec/div REC/PB
⓬ 2V/div 1μsec/div REC
⓭ 2V/div 1μsec/div REC
⓮ 2V/div 1μsec/div PB
⓯ 2V/div 1μsec/div PB
⓰ 2V/div 0.2μsec/div REC
⓱ 2V/div 1μsec/div REC/PB
⓲ 2V/div 1μsec/div REC
⓳ 2V/div 10μsec/div REC
⓴ 2V/div 10μsec/div REC
⓵ 2V/div 10μsec/div REC
⓶ 2V/div 10μsec/div REC/PB
⓷ 1V/div 10μsec/div REC
⓸ 2V/div 10μsec/div REC/PB
⓹ 2V/div 1μsec/div REC
⓺ 2V/div 10μsec/div REC/PB

[AUDIO BOARD]

[HP VOL BOARD]

[REC VOL BOARD]

[HP JACK BOARD]

IC101 IC201 MS338 LINE AMP

IC102 IC202 LF412CN BUFFER

IC151 IC251 NJ5532P AUDIO AMP

IC152 IC252 NJ5532P AUDIO AMP

IC153 IC253 HP AMP

IC301 MSF7805L REG.

IC302 MSF7905L REG.

IC303 MSF7805L REG.

IC304 CS5326-KP A/D CONVERTER

IC305 SN74HC175N SYNC

IC348 CXD2552-2 D/A CONVERTER

IC350 SM5813APT DIGITAL FILTER

IC351 SN74HC04AN BUFFER

IC354 NJ5539P RESET

IC355 MSF7805L-720 REG.

IC356 MSF7808L REG.

IC357 SN74HC393N COUNTER

IC358 TC5081AP PHASE COMPARATOR

IC359 BUFFER

Q351 RT1A SWITCH

Q352 353 OSC

Q354 355 RELAY DRIVE

Q356–359 RELAY DRIVE

IC305 74HC175

IC357 SN74HC393N

IC304 CS5326-KP

IC348 CXD2552

IC350 SM5813APT

IC358 TC5081AP

TO DIGITAL BOARD CN531 (See page 44)

TO POWER BOARD (See page 66)

TO BALANCE CONV. BOARD CN805 (See page 68)

TO DIGITAL BOARD CN533 (See page 44)

TO DIGITAL BOARD CN532 (See page 44)

TO DIGITAL BOARD CN537 (See page 44)

TO DIGITAL BOARD CN535 (See page 44)

TO BALANCE CONV. BOARD CN803 (See page 69)

TO BALANCE CONV. BOARD CN804 (See page 68)

【DIGITAL BOARD】

IC504 DIGITAL ATTENUATER

IC530 PB/REC SELECT

IC531 EASY DELAY

IC532 MASTER/SLAVE SELECT

IC533 TRANSISTOR MUTE

IC534 D/A CONVERTER

IC535 VCO-CON VREF BUFFER

IC536 HPF AMP

Q524,525 RECTIFY

IC505 MASTER RF ATF

Q526 MASTER RF PB AMP

Q530 SWITCH

IC529

IC528 A/D,D/A SELECT

IC527 SELECTOR

IC526 CLOCK GENERATOR

IC525 SYSTEM CONTROLLER

Q533 VCO OFFSET ADJ

Q534 2SA1175 BUFFER

Q535 COMP

Q527 SELECTOR

Q528 SELECTOR

Q529 SELECTOR

SLAVE RF

IC502 MASTER DSP

IC503 SLAVE DSP

IC517 SYRES

IC507 SDRAM

IC506 SDRAM

IC519 I²C-CONTROL

Q536 DIGITRES SLAVE CLOCK SELECT

IC516 TC74HC123AP

IC501 MASTER MICRO COMPUTER

IC520 DIR-IN AMP

IC521 CD4-OPT SELECT

IC522 DIR-IN NORMALIZER

IC523 DIR-OUT DRIVER

IC508 T-REEL PWM BUFFER

IC509 S-REEL PWM BUFFER

IC509 Q501-503 T-REEL DRIVER

IC509 Q504-506 S-REEL DRIVER

IC510 CAPSTAN PWM BUFFER

IC510 DRUM PWM BUFFER

Q507,509-511 FWD PWM DRIVER

Q508,512-514 BRAKE PWM DRIVER

IC511 CAPSTAN DRIVER

Q517,518 CAPSTAN DRIVER

IC513 CASSE-CON MOTOR DRIVER

IC514 LOAD MOTOR DRIVER

Q532 SWITCH

IC512 FG BUFFER

IC515 S-END SENSOR AMP

IC515 T-END SENSOR AMP

Q519,520 END/LED DRIVER

【BATTERY BOARD】

【DIGITAL OUT BOARD】

J1801 DIGITAL IN/OUT (COAXIAL) L OUT

【DIGITAL IN BOARD】

J601 DIGITAL IN/OUT (COAXIAL)

(See page 42) TO AUDIO BOARD M

(See page 39) TO AUDIO BOARD L

(See page 42) TO AUDIO BOARD K

(See page 42) TO AUDIO BOARD CN352 J

(See page 42) TO AUDIO BOARD CN351 I

(See page 65) TO POWER BOARD S

(See page 65) TO POWER BOARD R

(See page 32) TO MD BOARD CN052 D

(See page 32) TO MD BOARD CN053 C

(See page 44) TO MD BOARD CN051 E

(See page 55) TO CONTROL SW BOARD P

(See page 55) TO CONTROL SW BOARD Q

TO RF AMP (R/P) BOARD CN352 B (See page 29)

TO RF AMP (P/B) BOARD CN52 A (See page 29)

TO CONTROL SW BOARD (See page 55) O

TO CONTROL SW BOARD (See page 55) N

TO CONTROL SWITCH BOARD CN08B Y (See page 54)

TO D-SUB BOARD CN608 X (See page 55)

TO CASSE-COM MOTOR BOARD CN03 F (See page 33)

TO LOADING MOTOR BOARD CN054 F (See page 33)

TO S-END BOARD CN055 G (See page 33)

IC502, 503 CXD2601AQ

DIO DIGITAL INTERFACE

PB DECODING + D/A CONVERSION + PLAYBACK

DPLL RF DATA SLICER

ADA INTER LEAVE DEINTER LEAVE

REC CODING + A/D CONVERSION

ECC PARITY CREATION DECODING

RMIF RAM INTERFACE

SYSCON MICRO COMPUTER INTERFACE

IC504 CXD1136Q

IC505 CXA1046M

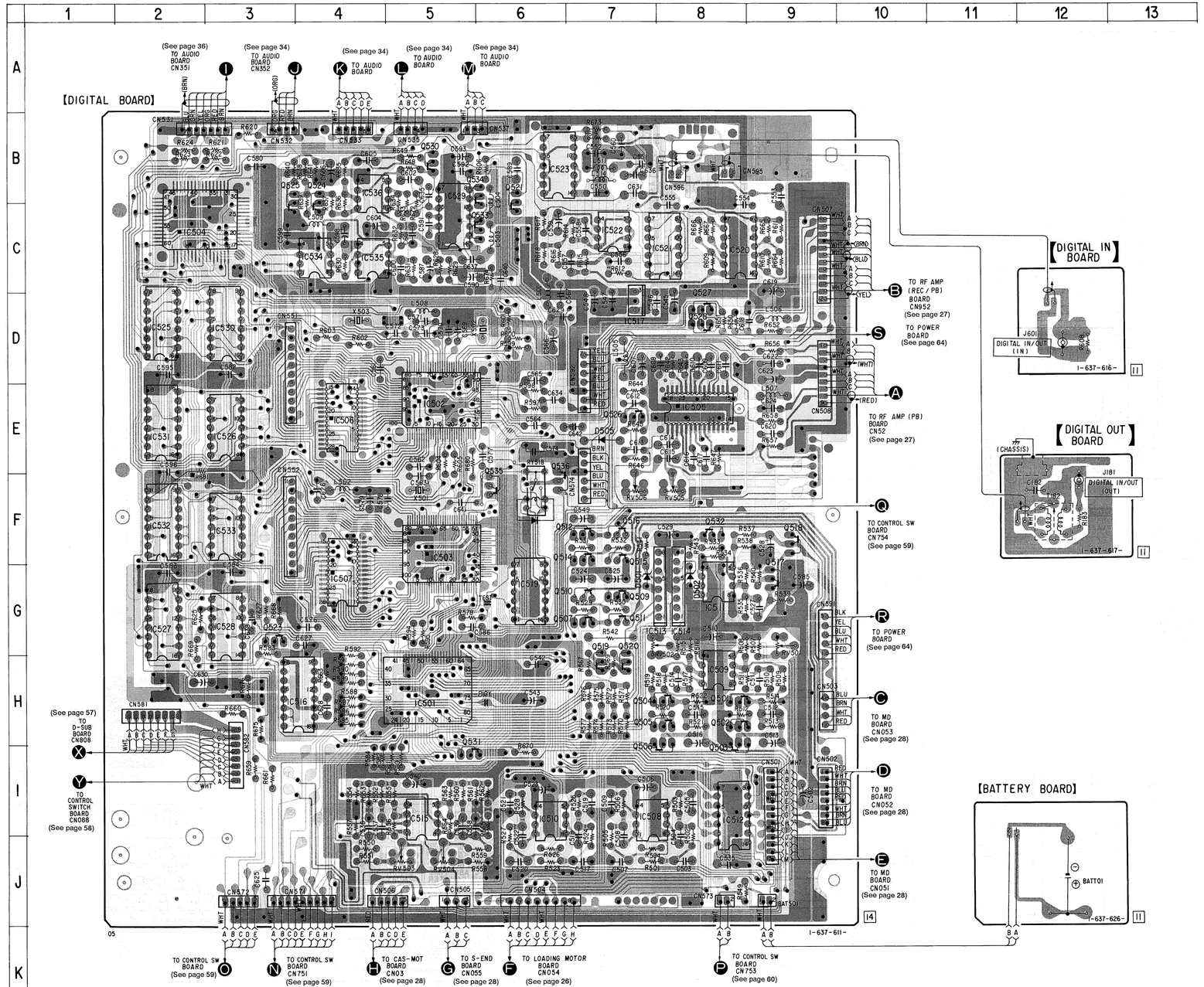
IC513, 514 M54641L

IC529 74LS624

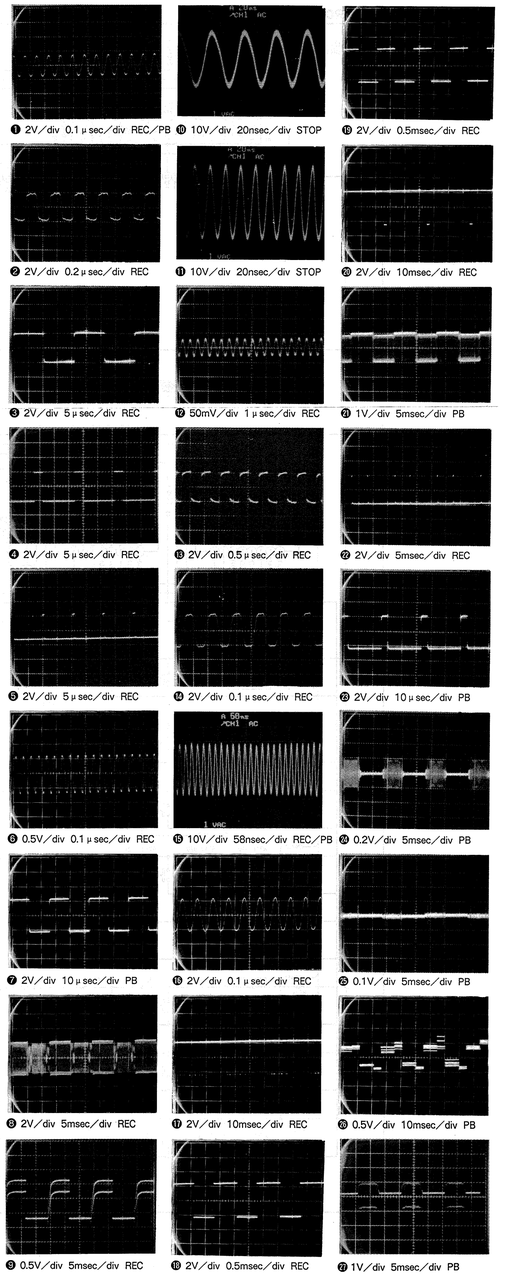
IC534 TDA1543

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D501	G-7	IC534	C-4
D502	G-8	IC535	C-4
D505	E-7	IC536	B-4
CP671	B-11	Q1	E-6
CP672	B-12	Q2	F-6
		Q501	H-8
IC501	H-5	Q502	H-8
IC502	E-5	Q503	I-8
IC503	F-5	Q504	H-8
IC504	C-2	Q505	H-8
IC505	E-8	Q506	I-8
IC506	E-4	Q507	G-7
IC507	G-4	Q509	G-7
IC508	I-7	Q510	G-7
IC509	H-8	Q511	G-7
IC510	I-6	Q512	F-7
IC511	G-8	Q514	F-7
IC512	I-8	Q515	F-7
IC513	G-8	Q516	F-7
IC514	G-8	Q517	G-9
IC515	I-5	Q518	F-9
IC516	H-4	Q519	H-7
IC517	D-7	Q520	H-7
IC519	D-6	Q521	B-6
IC520	C-8	Q523	G-3
IC521	C-8	Q524	B-4
IC522	C-7	Q525	B-3
IC523	B-6	Q526	E-7
IC525	D-2	Q527	D-8
IC526	E-3	Q528	D-8
IC527	G-2	Q530	B-5
IC528	G-3	Q531	I-5
IC529	C-5	Q532	F-8
IC530	D-3	Q533	C-6
IC531	E-2	Q534	B-6
IC532	F-2	Q535	E-6
IC533	F-3		


【DIGITAL BOARD】
(See page 36) TO AUDIO BOARD CN351
(See page 34) TO AUDIO BOARD CN352
(See page 34) TO AUDIO BOARD
(See page 34) TO AUDIO BOARD
(See page 34) TO AUDIO BOARD
TO RF AMP (REC / PB) BOARD CN952 (See page 27)
TO POWER BOARD (See page 64)
TO RF AMP (PB) BOARD CN52 (See page 27)
TO CONTROL SW BOARD CN754 (See page 59)
TO POWER BOARD (See page 64)
TO MD BOARD CN053 (See page 28)
TO MD BOARD CN052 (See page 28)
TO MD BOARD CN051 (See page 28)
(See page 57) TO D-SUB BOARD CN808
TO CONTROL SWITCH BOARD CN088 (See page 58)
TO CONTROL SW BOARD (See page 59)
TO CONTROL SW BOARD CN751 (See page 59)
TO CAS-MOT BOARD CN03 (See page 28)
TO S-END BOARD CN055 (See page 28)
TO LOADING MOTOR BOARD CN054 (See page 26)
TO CONTROL SW BOARD CN755 (See page 60)
【DIGITAL IN BOARD】
【DIGITAL OUT BOARD】
【BATTERY BOARD】
1-637-611-
1-637-616-
1-637-617-
1-637-626-

• Digital Section Waveforms


❶ 2V/div 0.1 μsec/div REC/PB
❷ 2V/div 0.2 μsec/div REC
❸ 2V/div 5 μsec/div REC
❹ 2V/div 5 μsec/div REC
❺ 2V/div 5 μsec/div REC
❻ 0.5V/div 0.1 μsec/div REC
❼ 2V/div 10 μsec/div PB
❽ 2V/div 5msec/div REC
❾ 0.5V/div 5msec/div REC
❿ 10V/div 20nsec/div STOP
⓫ 10V/div 20nsec/div STOP
⓬ 50mV/div 1 μsec/div REC
⓭ 2V/div 0.5 μsec/div REC
⓮ 2V/div 0.1 μsec/div REC
⓯ 10V/div 58nsec/div REC/PB
⓰ 2V/div 0.1 μsec/div REC
⓱ 2V/div 10msec/div REC
⓲ 2V/div 0.5msec/div REC
⓳ 2V/div 0.5msec/div REC
⓴ 0.2V/div 5msec/div PB
㉑ 0.1V/div 5msec/div PB
㉒ 0.5V/div 10msec/div PB
㉓ 1V/div 5msec/div PB

[CONTROL SW BOARD]

Q719–726
FL-GRID-DRIVERS

FL701 FL-TUBE

IC701
M38C24D8
DISPLAY
MICRO COMPUTER

IC702
BACK-UP MEMORY

IC712
REAL TIME CLOCK

IC703 IC704
KEY-SCAN
INPUT-SELECTOR

IC705
REFERENCE-VOLTAGE
R-2R LADDER

IC706
COMPARATOR

IC709
DIGITAL-METER
CONTROLLER

IC707
OUTPUT
EXPANDER

Q717,718,732
LAMP
DRIVER

Q727,728,730
LED-GND
SWITCHING

Q701,702,705–707,709–716
LED-DRIVERS

CN753
TO DIGITAL BOARD CN573 (See page 44)

TO DIGITAL BOARD CN574 (See page 44)

TO DIGITAL BOARD CN571 (See page 47)

TO DIGITAL BOARD CN572 (See page 47)

CAS-CON-LAMP

TO DIGITAL BOARD CN581 (See page 47)

TO DIGITAL BOARD CN582 (See page 47)

[SLIDE SW BOARD]

[OPTICAL RECEIVE BOARD]

[PUSH SW BOARD]

[D-SUB BOARD]

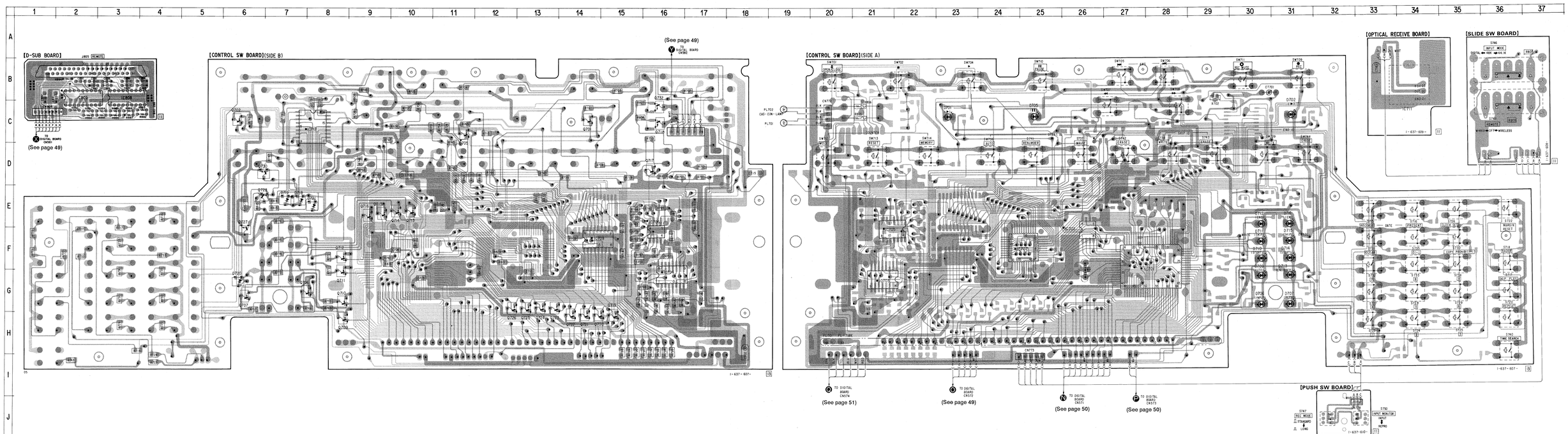
❶ 1V/div 0.2 μ sec/div REC

❷ 0.5V/div 10 μ sec/div REC

FL701 INTERNAL CONNECTION

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D701	C-23	Q701	C-14
D702	C-31	Q702	C-6
D705	C-25	Q705	C-11
D706	G-30	Q706	G-7
D707	G-31	Q707	G-6
D709	G-30	Q709	H-8
D710	F-30	Q710	G-8
D711	F-30	Q711	E-8
D712	E-30	Q712	F-8
D713	G-31	Q713	E-10
D714	F-31	Q714	E-10
D715	F-31	Q715	E-9
D716	E-31	Q716	E-9
D718	E-7	Q717	D-16
D719	E-7	Q718	C-16
D720	G-6	Q719	H-15
D721	E-8	Q720	H-14
		Q721	H-14
IC701	F-28	Q722	H-14
IC702	F-26	Q723	G-13
IC703	G-21	Q724	G-13
IC704	G-16	Q725	G-13
IC705	F-21	Q726	G-12
IC706	F-16	Q727	F-6
IC707	F-25	Q728	E-6
IC709	F-14	Q730	D-6
IC711	B-34	Q732	C-16
IC712	C-8		
IC808	B-3		
IC809	B-2		

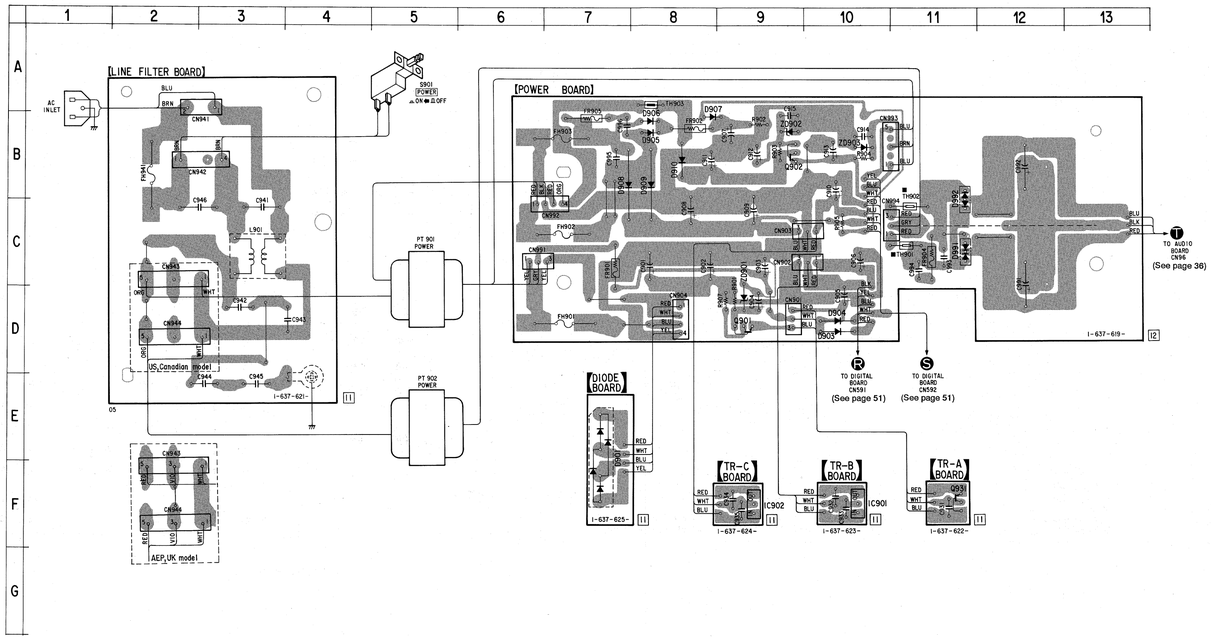

[D-SUB BOARD]
[CONTROL SW BOARD](SIDE B)
[CONTROL SW BOARD](SIDE A)
[OPTICAL RECEIVE BOARD]
[SLIDE SW BOARD]
[PUSH SW BOARD]
(See page 49)
(See page 51)
(See page 50)

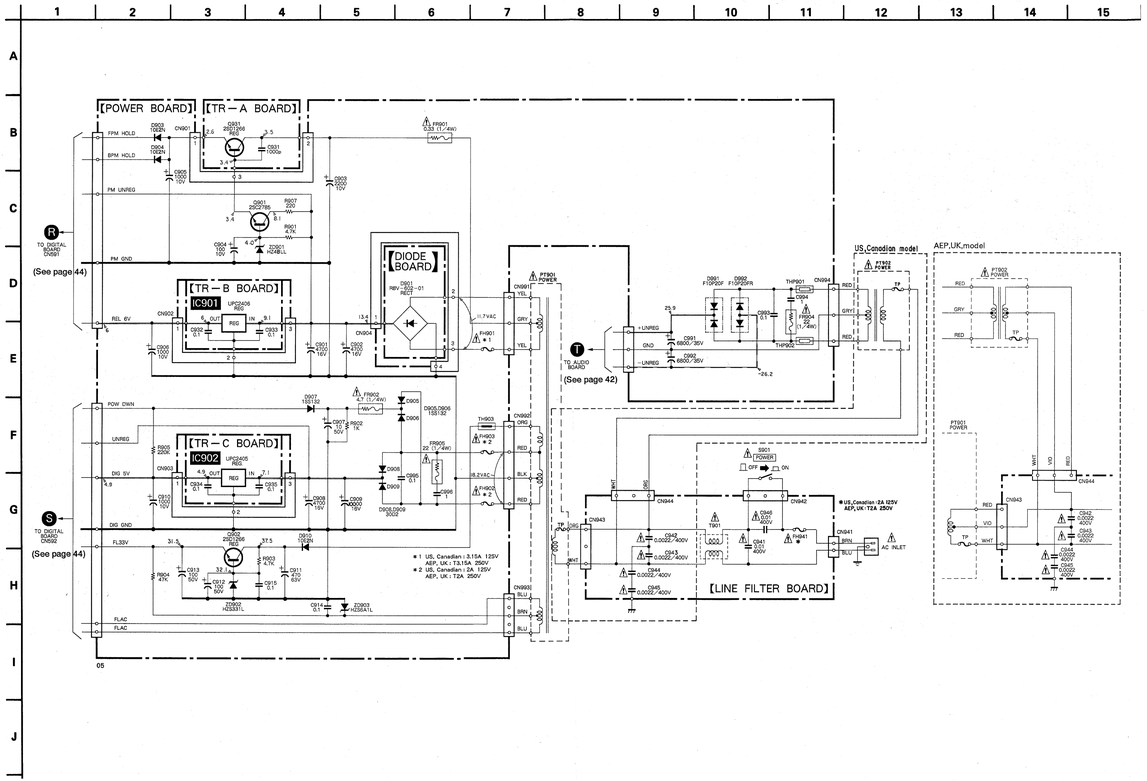
5-9. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM – POWER SECTION –

• See page 26 and 31 for notes.

• Semiconductor Location

Ref. No.	Location
D901	E-7
D903	D-10
D904	D-10
D905	B-8
D906	B-8
D907	B-8
D908	B-7
D909	B-8
D910	B-8
D991	C-11
D992	C-11
ZD901	D-9
ZD902	B-9
ZD903	B-10
IC901	F-10
IC902	F-9
Q901	D-9
Q902	B-9
Q931	F-11





5-10. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM – ANALOG IN/OUT SECTION –

• See page 26 and 31 for notes.

• Semiconductor Location

Ref. No.	Location
D801	E-8
D802	E-7
D851	F-8
D852	F-8
IC801	E-6
IC802	G-3
IC803	G-5
IC804	G-8
IC805	G-2
IC806	H-3
IC807	H-6

【BAL-IN BOARD】

【BAL-CONV BOARD】

【BAL-OUT BOARD】

(See page 37) TO AUDIO BOARD CN102,202

(See page 37) TO REC VOL BOARD CN224

(See page 36) TO AUDIO BOARD CN306

【BAL-IN BOARD】

【BALANCE-CONV. BOARD】

【BAL-OUT BOARD】

(See page 42) TO CN306 AUDIO BOARD

(See page 40) TO CN102 CN202 AUDIO BOARD

(See page 40) TO CN224 REC VOL BOARD

5-11. PIN FUNCTION

IC501 MASTER microcomputer (CXP80524)

While exchanging data with the display microcomputer (IC701) by the serial communication, this IC controls the mechanism check servo and selects inputs DSP (IC502, 503) and the attenuator (IC504).

PIN	SIGNAL NAME	I/O	LOGIC		FUNCTION
			O	I	
1	ATTEX	O	Outside (ATTCK)	Inside (1/8 LECK)	Attenuator (IC504) clock select output
2	ATTCK	O	–	–	Attenuator (IC504) level set clock output
3	FPON	O	OFF	ON	FWD plunger (PM002) ON/OFF output
4	FPKI	O	OFF	ON	FWD plunger (PM002) KICK output
5	TLOCK	O	ON	OFF	REEL T side LOCK output
6	CPDIR	O	FWD	RVS	CAPSTAN DIRECTION select output
7	BPON	O	OFF	ON	REEL BRAKE plunger (PM001) ON/OFF output
8	BPKI	O	OFF	ON	REEL BRAKE plunger (PM001) KICK output
9	DRON	O	OFF	ON	DRUM motor ON/OFF output
10	DRDIR	O	NORM	RVS	DRUM DIRECTION select input
11	OPT/COA	O	OPTICAL	COAXIAL	DIGITAL IN, OPTICAL/COAXIAL select output
12	DIG/ANA	O	DIGITAL	ANALOG	INPUT/DIGITAL/ANALOG select output
13	REC/PB	O	REC	PB	Mode REC/PB select input
14	MST/SLV	O	SLAVE	MASTER	MONITOR MASTER/SLAVE (SOURCE/TAPE) select
15	SLVMUT	O	OFF	MUTE	MUTE output so SLAVE DSP (IC503)
16	MSTMUT	O	OFF	MUTE	MUTE output to MASTER DSP (IC502)
17	FS1	O	–	–	fs select: FS1 = 0 / 0 / 1 / 1 (STOP / 44.1K / 32K / 48K)
18	FS0	O	–	–	fs select: FS0 = 0 / 1 / 0 / 1 (STOP / 44.1K / 32K / 48K)
19	DFMUT	O	OFF	MUTE	MUTE output to DIG-FIL (IC312)
20	DOCNT	O	OFF	ON	DIGITAL OUT (ON/OFF) CONTROL output
21	LMEJ	O	OFF	ON	LOADING motor EJECT direction } BRAKE MODE at ON-ON
22	LMLD	O	OFF	ON	LOADING motor LOAD direction } BRAKE MODE at ON-ON
23	LINMUT	O	OFF	MUTE	Line mute (relay) output
24	DISPSL	O	ON	OFF	DISPLAY microcomputer communication SELECT output
25	TEND	I	–	–	T side END SENSOR TLED ON } DC (⎓): Magnetic part AC (⎍⎍⎍): Leader tape
26	SEND	I	–	–	S side END SENSOR SLED ON } DC (⎓): Magnetic part AC (⎍⎍⎍): Leader tape
27	CMCL	O	OFF	ON	CAS-CON. motor CLOSE direction } BRAKE MODE at ON-ON
28	CMOP	O	OFF	ON	CAS-CON. motor OPEN direction } BRAKE MODE at ON-ON
29	TLED	O	OFF	ON	T side LED drive output } DUTY 50% DRIVE on T/S antiphase
30	SLED	O	OFF	ON	S side LED drive output } DUTY 50% DRIVE on T/S antiphase
31	MP	I	Inside ROM	Outside ROM	MICRO PROCESSOR MODE input (fixed to "0")
32	XRST	I	RESET	⎍ RELEASE	RESET
33	Vss	–	–	–	GND
34	XTAL	–	–	–	NC
35	EXTAL	–	–	–	Microcomputer external clock (=MCLK=9.408 MHz)
36	DISPLSY	I	ON	OFF	DISPLAY microcomputer communication sync input
37	DISPDI	I	–	–	DISPLAY microcomputer communication serial data input
38	DISPDO	O	–	–	DISPLAY microcomputer communication serial data output

PIN	SIGNAL NAME	I/O	LOGIC		FUNCTION
			O	I	
39	DISPCK	I	–	–	DISPLAY microcomputer communication serial clock input
40	SBSY	I	ON (communicatable)	OFF (not communicatable)	Signal processing communication SUB DATA SYNC. input
41	SBDI	I	–	–	Signal Processing communication SUB DATA IN. input
42	SBDO	O	–	–	Signal Processing communication SUB DATA OUT. input
43	SDCK	O	–	–	Signal Processing communication SUB DATA CLOCK. input
44	AVss	–	–	–	Analogue input GND
45	AVref	–	–	–	Analogue input REFERENCE (+5 V)
46	AVdd	–	–	–	Analogue input +5 V
47		I			Not used (Pull-up)
48	SWAD3	I	–	–	SWITCH A/D input (CAS-CON system)
49	SWAD2	I	–	–	SWITCH A/D input (LOADING system)
50	SWAD1	I	–	–	SWITCH A/D input (RECGN system)
51	SWAD0	I	–	–	SWITCH A/D input (RECGN system)
52	LEVSYN	I	NONE	MUSIC	LEVEL SYNC input (Write START-ID by the audio input)
53	MUTM	I	OFF	MUTE	MUTE monitor input from MASTER DSP (IC502)
54	ATFIN	I	–	–	ATF PILOT signal input
55	TFG	I	–	–	T-REEL FG input
56	SFG	I	–	–	S-REEL FG input
57	CFG	I	–	–	CAPSTAN FG input
58	DFG	I	–	–	DRUM FG input
59	DPG	I	–	–	DRUM PG input
60	DREF	I	–	–	DRUM REFERENCE $\overset{SP}{100/3}$, $\overset{LP}{50/3}$, $\overset{SEARCH}{1.6k}$ (Hz $\pm \alpha$) input
61	MCLK	I	–	–	MASTER CLOCK (F_{CH}=9.408 MHz) input
62	PBDT	I	–	–	PB (playback) DATA input
63	SWP	O	Ach	Bch	SWITCHING PULSE
64	DPWM	O	–	–	DRUM PWM output
65	CPWM	O	–	–	CAPSTAN PWM output
66	TPWM	O	–	–	T-REEL PWM output
67	SPWM	O	–	–	S-REEL PWM output
68	ADRES	O	RESET	ACTIVE	Reset output for AD converter
69	ERMN	I	RF is none and REC	RF exists	ERROR MONITOR (PBRF exists or not) input
70	XTEST	I	ON	OFF	TEST MODE input
71	POWDN	I	ON	OFF	POWER DOWN detect input (AC POWER OFF input)
72	V_{DD}	–	–	–	+5 V
73	Vss	–	–	–	GND
74	NC	–	–	–	Not connected
75	ATFS2	O	–	–	ATF Sync signal output to MASTER DSP (IC502)
76	DIVCO	O	OSC ON	OSC STOPS	Osc. ON/OFF select output to DIG-IN VCO (IC529)
77	ATFS3	O	–	–	SYNC3/RF AMP MODE for ATF (IC505)
78	LP/SP	O	LP	SP	LONG PLAY/STANDARD PLAY select output
79	XDTR	O	ON	OFF	DATA RECORDER MODE (ON during LP after-recording or searching)
80	ATTMUT	O	OFF	MUTE	Attenuator (IC504) MUTE, (ON during fading)

IC701 DISPLAY MICROCOMPUTER (MSC62408)

While serial communicating, this IC controls the fluorescent display tube, the level meter (IC709), the clock (IC712), the remote control signal, LED indication by the expansion port (IC707), key input scan.

PIN	SIGNAL NAME	I/O	LOGIC		FUNCTION
			O	I	
1 – 2	D6 – D7	I/O	–	–	Data bus
3	PMODE0	I			PORT MODE 0 } Mode setting input (normally open) for each processing
4	PMODE1	I			PORT MODE 1
5	PMODE2	I			PORT MODE 2
6	MMUTE	I	OFF	MUTE	Level meter muting input
7	ROMSI	I	–	–	Serial data input from E²PROM (IC702)
8	ROMBY	I	ON	OFF	BUSY signal input from E²PROM (IC702)
9	CMPIN	I	Vref < Vkey	Vref > Vkey	Comparator out input for KEY A/D
10	MSTAK	O	ON	OFF	Acknowledge output to the master microcomputer (IC501)
11	CPUSC	O	–	–	On the microcomputer communication, serial clock output
12	CPUSO	O	–	–	On the microcomputer communication, serial data output
13	CPUSI	I	–	–	On the microcomputer communication, serial data input
14	MOTUP	O	OFF	ON	UP output for the volume with motor
15	MOTDN	O	OFF	ON	DOWN output for the volume with motor
16	CLKCE	O	ON	OFF	Chip enable output to the real time clock (IC712)
17	RMC	I	–	–	Received remote control signal input
18	MSTSY	I	ON	OFF	Sync input from the master microcomputer (IC501)
19	TIMIN	I	ON	OFF	The real time clock (IC712) timing signal input
20	XRST	I	RESET	RELEASE	Microcomputer reset signal input
21	TEST	I	–	⌐ –	Test mode (Normally GND level)
22	EXPST	O	LATCH	ACTIVE	Strobe signal output to the output expansion IC (IC707)
23	METCE	O	⌐ ON	OFF	Chip enable signal output to the meter IC (IC709)
24	WR	O	ON	OFF	WRITE signal output and the meter IC (IC709)
25	RD	O	ON	OFF	READ signal output and the meter IC (IC709)
26	RAMCE	O	ON	OFF	Not used ("H" fixed)
27	ROMSO	O	–	–	Serial data output to E²PROM (IC702)
28	ROMSC	O	–	–	Serial clock signal output to E²PROM (IC702)
29	ROMCE	O	ON	OFF	Chip clock signal output to E²PROM (IC702)
30	OSCI	O	–	–	Ceramic oscillator for clock connecting terminal (4.19 MHz)
31	OSCO	O	–	–	Ceramic oscillator for clock connecting terminal (4.19 MHz)
32	GND	O	–	–	GND
33 – 40	T0 – T7	O	OFF	ON	FL grid output
41 – 48	S31 – S24	O	OFF	ON	FL segment output
49	VFLT	–	–	–	B+ for FL (+35 V)
50 – 73	S23 – S0	O	OFF	ON	FL segment output
74	V_{DD}	–	–	–	+5 V power supply
75 – 80	D0 – D5	I/O	–	–	Data bus

SECTION 6
EXPLODED VIEWS

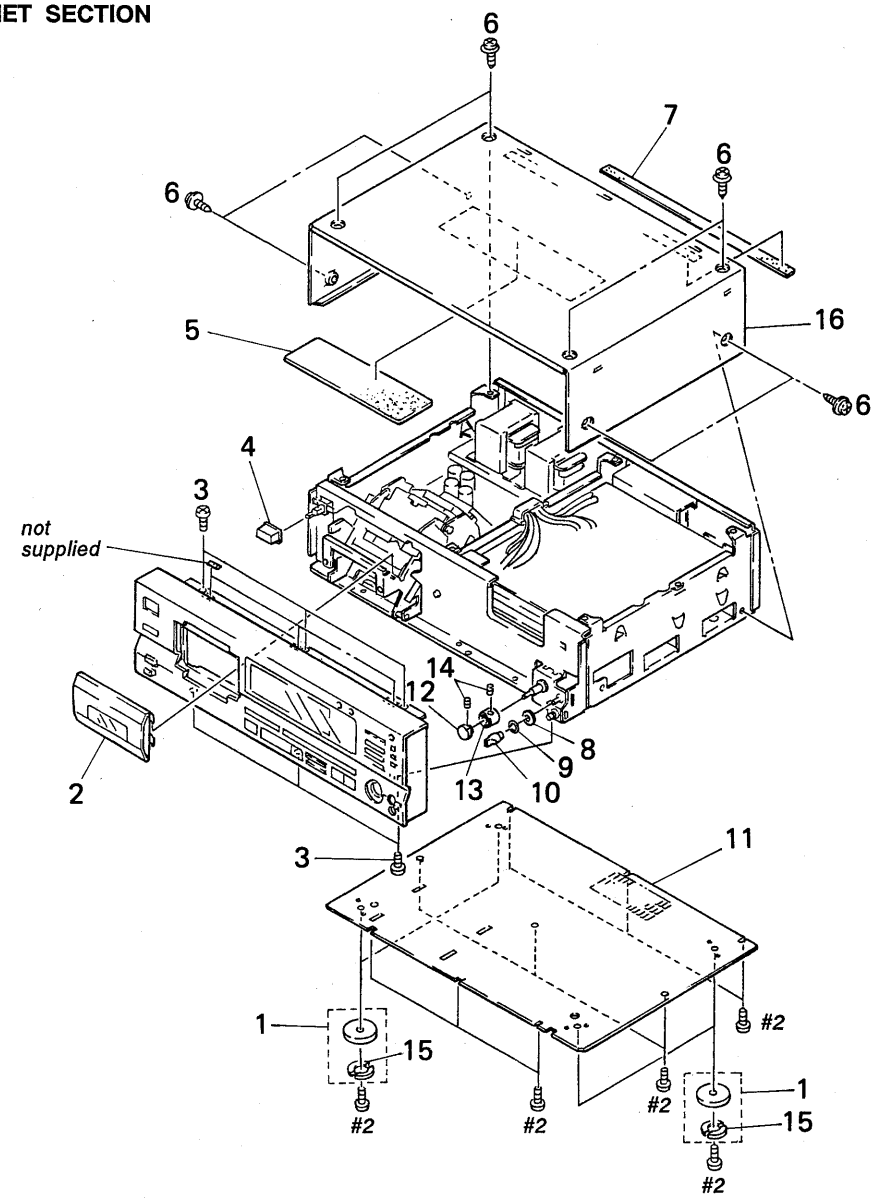
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

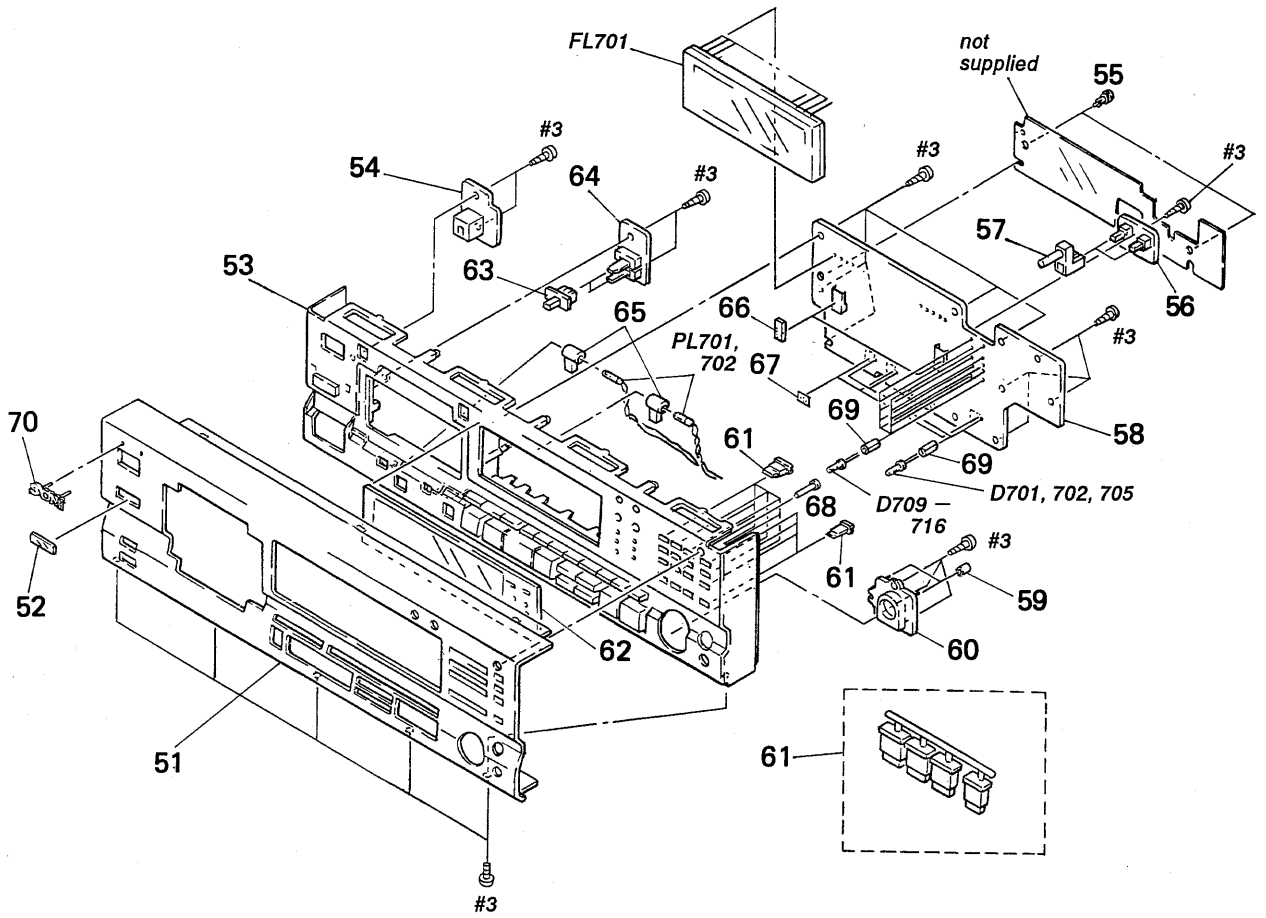
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

(1) CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	X-4911-201-1	FOOT ASSY	
2	A-2003-912-A	PANEL (CASSETTE) ASSY	
3	3-703-685-21	SCREW (+BV 3X8)	
4	4-923-520-31	KNOB, POWER (POWER)	
5	* 4-936-612-01	RUBBER (DAMPER)	
6	3-704-366-01	SCREW (CASE) (M3X8)	
7	3-370-871-01	FELT (CONDUCTIVE)	
8	* 4-604-335-01	PLATE, BLIND (A)	
9	3-354-981-01	SPRING (SUS), RING	
10	3-354-931-01	KNOB (DIA.10)	
11	* 4-931-433-11	PLATE, BOTTOM	
12	X-3362-380-1	KNOB (REC-R) ASSY	
13	X-3362-381-1	KNOB (REC-L) ASSY	
14	3-701-506-01	SET SCREW, DOUBLE POINT 3X4	
15	4-923-836-11	CUSHION	
16	3-369-901-11	CASE	

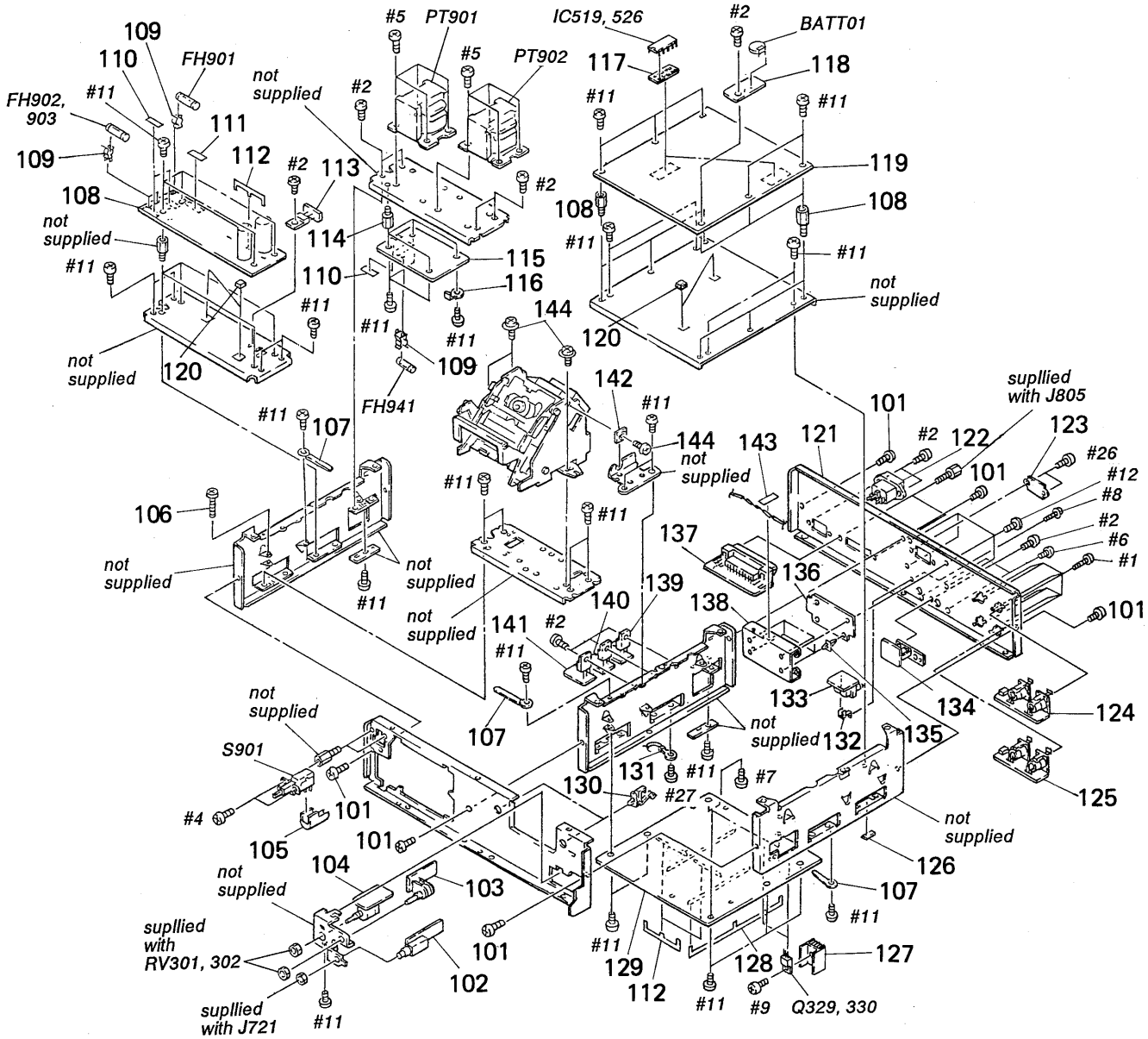
(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-364-943-41	PANEL (FRONT)	
52	3-364-919-01	FILTER	
53	X-3363-419-1	ESCUTCHEON (PANEL) ASSY	
54	* 1-637-609-11	OPTICAL RECEIVE BOARD	
55	3-531-576-01	RIVET	
56	* 1-637-610-11	PUSH SW BOARD	
57	4-923-879-01	BUTTON (DIA. 4)	
58	* A-2006-601-A	CONTROL SW BOARD, COMPLETE	
59	* 3-538-946-01	CUSHION, PAUSE SLIDER	
60	3-364-928-21	ESCUTCHEON (R. V)	
61	3-364-927-01	BUTTON (10 KEY)	
62	3-364-924-11	WINDOW (FL TUBE)	
63	3-307-538-21	KNOB, SWITCH, TIMER	
64	* 1-637-608-11	SLIDE SW BOARD	
65	* 3-365-031-01	COVER, LAMP	
66	9-911-839-XX	CUSHION	
67	3-831-441-11	CUSHION	

Ref. No.	Part No.	Description	Remark
68	4-934-031-01	BUTTON (DISPLAY)	
69	* 4-911-676-01	SPACER, LED	
70	4-908-848-31	EMBLEM, SONY	
D701	8-719-304-16	DIODE SEL2510W-D	
D702	8-719-918-76	DIODE GL-3PR9	
D705	8-719-934-34	DIODE AA3432S	
D709	8-719-934-34	DIODE AA3432S	
D710	8-719-934-34	DIODE AA3432S	
D711	8-719-934-34	DIODE AA3432S	
D712	8-719-934-34	DIODE AA3432S	
D713	8-719-934-34	DIODE AA3432S	
D714	8-719-934-34	DIODE AA3432S	
D715	8-719-934-34	DIODE AA3432S	
D716	8-719-934-34	DIODE AA3432S	
FL701	1-519-601-11	INDICATOR TUBE, FLUORESCENT	
PL701	1-518-664-11	LAMP, PILOT	
PL702	1-518-664-11	LAMP, PILOT	

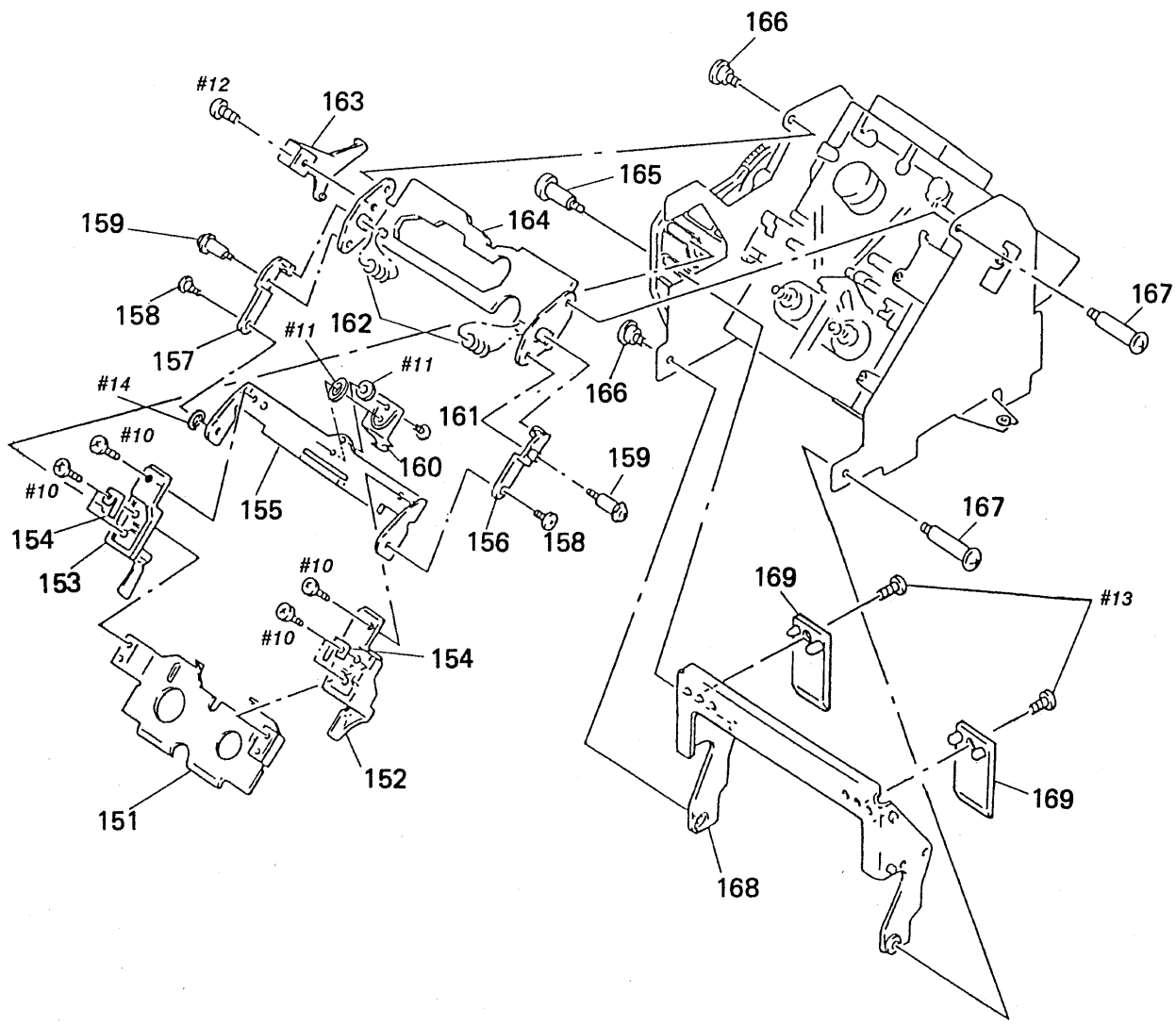
(3) CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
101	3-703-685-21	SCREW (+BV 3X8)	
102	* 1-637-614-11	HP JACK BOARD	
103	* 1-637-613-11	HP VOL BOARD	
104	* 1-637-615-11	REC VOL BOARD	
105	3-575-524-00	COVER, POWER SWITCH	
106	3-704-242-01	SCREW, TERMINAL, + BVTP CLAW	
107	3-703-150-11	STOPPER, WIRING	
108	* A-2006-626-A	POWER BOARD, COMPLETE	
109	* 1-533-213-31	HOLDER, FUSE	
110	3-701-947-14	LABEL (T2A), FUSE (AEP, UK)	
111	3-701-947-16	LABEL (T3.15A), FUSE (AEP, UK)	
112	* 1-568-130-11	BAR, BUS 3P	
113	* 1-637-625-11	DIODE BOARD	
114	* 3-363-575-31	SUPPORT	
115	* 1-637-621-11	LINE FILTER BOARD	
116	4-870-539-00	PLATE, GROUND	
117	1-543-843-11	BEAD, FERRITE	
118	* 1-637-626-11	BATTERY BOARD	
119	* A-2006-608-A	DIGITAL BOARD, COMPLETE	
120	9-911-839-XX	CUSHION	
121	* 3-370-184-01	PANEL, BACK (US, CANADIAN)	
121	* 3-370-184-11	PANEL, BACK (AEP, UK)	
122	⚠* 1-580-375-21	INLET 3P	
123	* 3-370-607-01	PLATE (COVER)	
124	* 1-640-286-11	BAL-IN BOARD	
125	* 1-640-287-11	BAL-OUT BOARD	
126	9-911-843-XX	CUSHION, FLYWHEEL	
127	* 4-931-401-01	HEAT SINK, V OUT	
128	1-568-129-11	BAR, BUS 8P	
129	* A-2006-607-A	AUDIO BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remark
130	* 3-329-937-02	CLIP, WIRE	
131	1-555-724-00	WIRE, GROUND	
132	* 4-916-318-01	PLATE, GROUND	
133	* 1-637-617-11	DEGITAL OUT BOARD	
134	* 1-637-616-11	COA IN BOARD	
135	* 3-703-353-01	SUPPORT, PC BOARD	
136	* 1-640-285-11	BAL CONV BOARD	
137	* 1-640-288-11	D-SUB BOARD	
138	3-370-608-01	CASE, SHIELD	
139	* 1-637-623-11	TR-B BOARD	
140	* 1-637-622-11	TR-A BOARD	
141	* 1-637-624-11	TR-C BOARD	
142	4-931-466-01	SPACER	
143	4-860-518-00	PAPER, VIBRATION PROOF (E)	
144	4-886-821-11	SCREW, S. TIGHT, +PTTWH 3X6	
BATT01	⚠ 1-528-229-11	BATTERY, LITHIUM CR-2450	
FH901	⚠ 1-532-237-00	FUSE, TIME-LAG (T3, 15A 250V) (AEP, UK)	
FH901	⚠ 1-532-745-11	FUSE, GLASS TUBE 3.15A 125V (US, CANADIAN)	
FH902	⚠ 1-532-203-00	FUSE, TIME-LAG (T2A 250V) (AEP, UK)	
FH902	⚠ 1-532-743-11	FUSE, GLASS TUBE 2A 125V (US, CANADIAN)	
FH903	⚠ 1-532-203-00	FUSE, TIME-LAG (T2A 250V) (AEP, UK)	
FH903	⚠ 1-532-743-11	FUSE, GLASS TUBE 2A 125V (US, CANADIAN)	
FH941	⚠ 1-532-203-00	FUSE, TIME-LAG (T2A 250V) (AEP, UK)	
FH941	⚠ 1-532-743-11	FUSE, GLASS TUBE 2A 125V (US, CANADIAN)	
PT901	⚠ 1-450-450-11	TRANSFORMER, POWER (D) (US, CANADIAN)	
PT901	⚠ 1-450-603-11	TRANSFORMER, POWER (AEP, UK)	
PT902	⚠ 1-450-449-11	TRANSFORMER, POWER (A) (US, CANADIAN)	
PT902	⚠ 1-450-604-11	TRANSFORMER, POWER (A) (AEP, UK)	
S901	⚠ 1-554-920-11	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)	

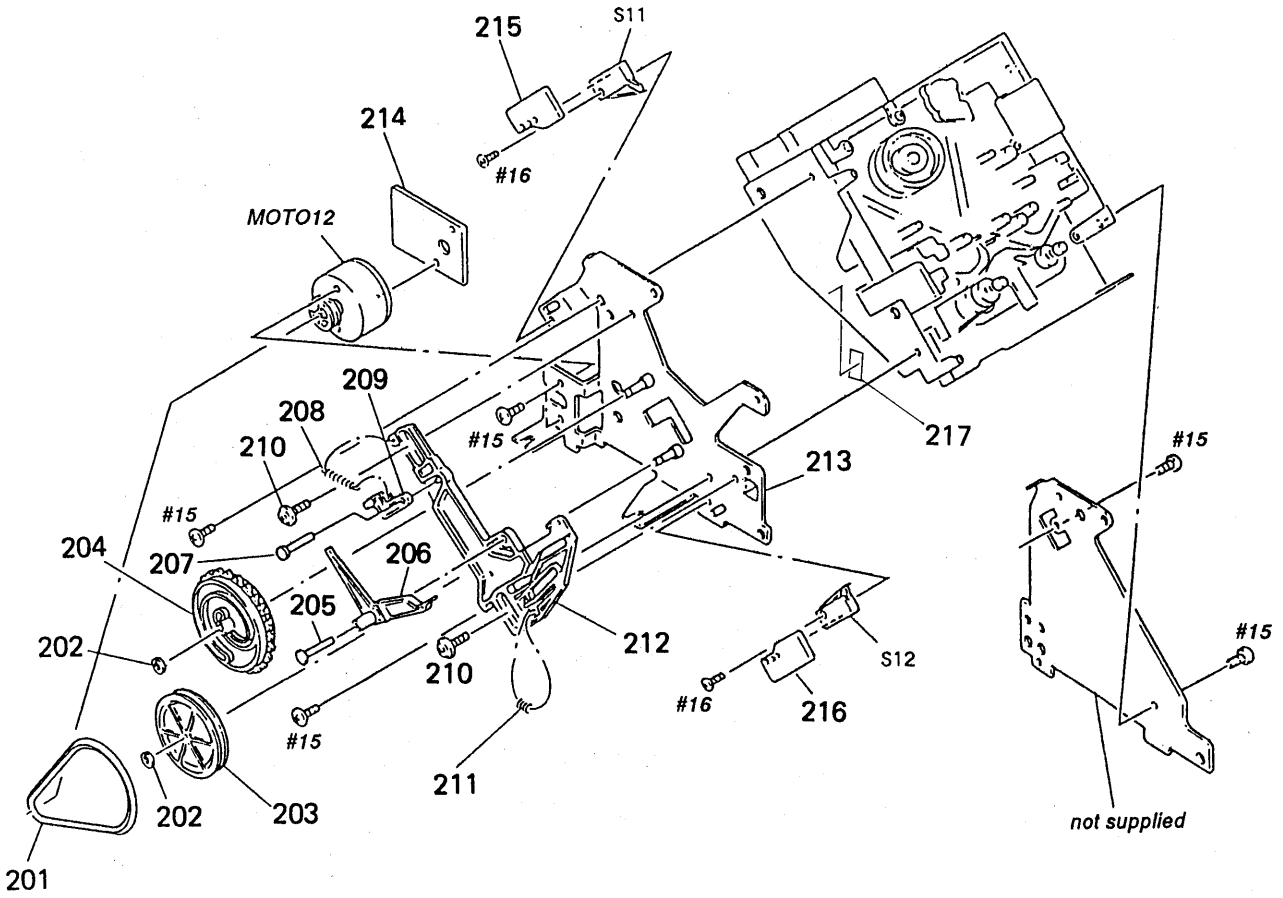
(4) MECHANISM SECTION 1



Ref. No.	Part No.	Description	Remark
151	4-931-476-01	HOLDER (LOWER)	
152	4-931-486-01	HOLDER (C-RIGHT)	
153	4-931-484-01	HOLDER (C-LEFT)	
154	3-366-308-01	SPRING (SIDE), PLATE	
155	* 4-931-485-01	HOLDER (C-INNER)	
156	4-931-481-01	ARM (LIMITER L)	
157	4-931-473-01	ARM (LIMITER R)	
158	3-312-161-00	SCREW, STEP, PRECISION	
159	4-918-991-01	SCREW, STEP	
160	4-931-461-01	SPRING (CENTER), LEAF	

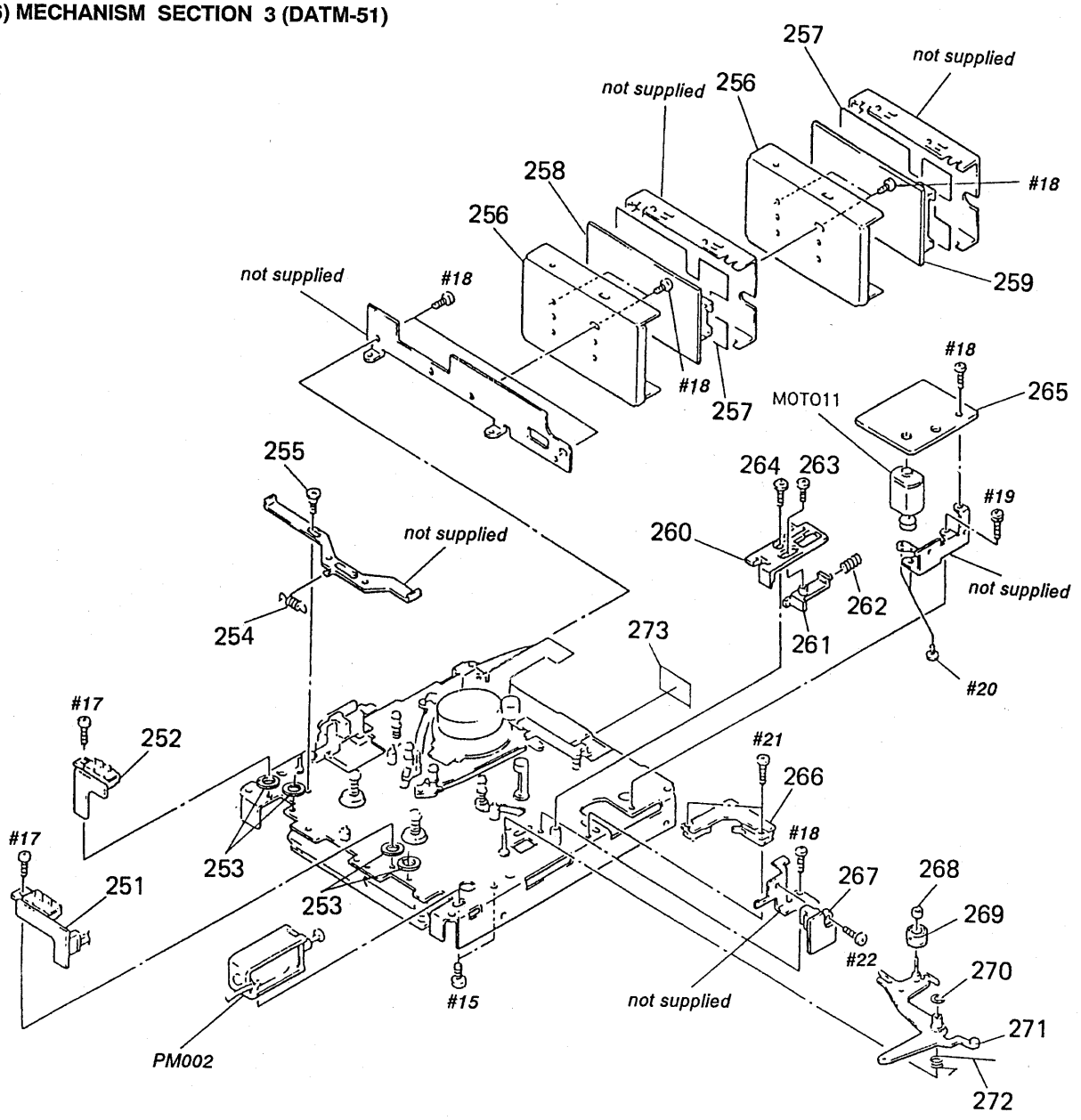
Ref. No.	Part No.	Description	Remark
161	3-352-517-01	SCREW (M2X2.5)	
162	3-537-214-00	SPRING, COMPRESSION	
163	* X-3362-941-1	JOINT ASSY	
164	* 3-369-235-11	PLATE, FULCRUM	
165	4-931-471-01	SCREW (STEP)	
166	2-236-956-00	SCREW, STEP	
167	4-931-463-01	SCREW (STEP)	
168	4-931-474-01	HOLDER (WINDOW)	
169	4-931-469-01	PLATE, ORNAMENTAL	

(5) MECHANISM SECTION 2



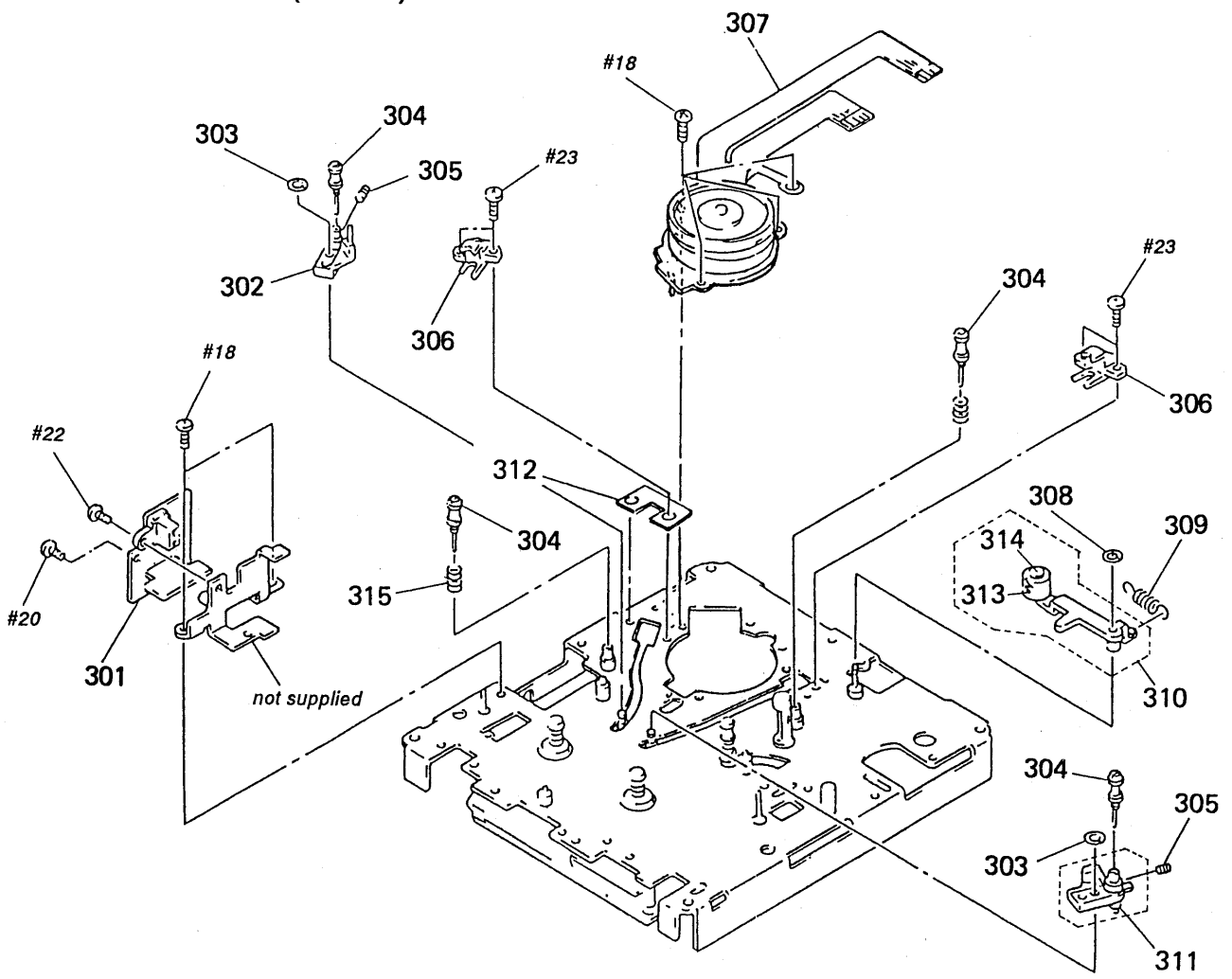
Ref. No.	Part No.	Description	Remark
201	4-931-470-01	BELT (DRIVING)	
202	3-307-948-21	WASHER, NYLON	
203	4-931-459-01	PULLEY	
204	4-931-477-01	GEAR (CAM)	
205	4-931-468-01	SHAFT (PRESS FITTING)	
206	4-931-490-01	LEVER (LINK)	
207	4-936-626-01	SHAFT (ARM PRESS FITTING)	
208	3-549-810-00	SPRING, TENSION	
209	4-931-460-01	ARM (SLIDER)	
210	4-932-336-01	SCREW (STEP)	
211	3-537-215-00	SPRING, COMPRESSION	
212	4-931-492-01	SLIDER (CAM)	
213	* X-4919-023-1	PLATE ASSY, SIDE	
214	* 1-633-726-11	MOTOR BOARD	
215	* 1-633-727-11	SW (IN) BOARD	
216	* 1-633-728-11	SW (OUT) BOARD	
217	3-846-312-00	SPACER	
MOTO12	A-2003-448-A	MOTOR ASSY (CASSETTE COMPARTMENT)	

(6) MECHANISM SECTION 3 (DATM-51)



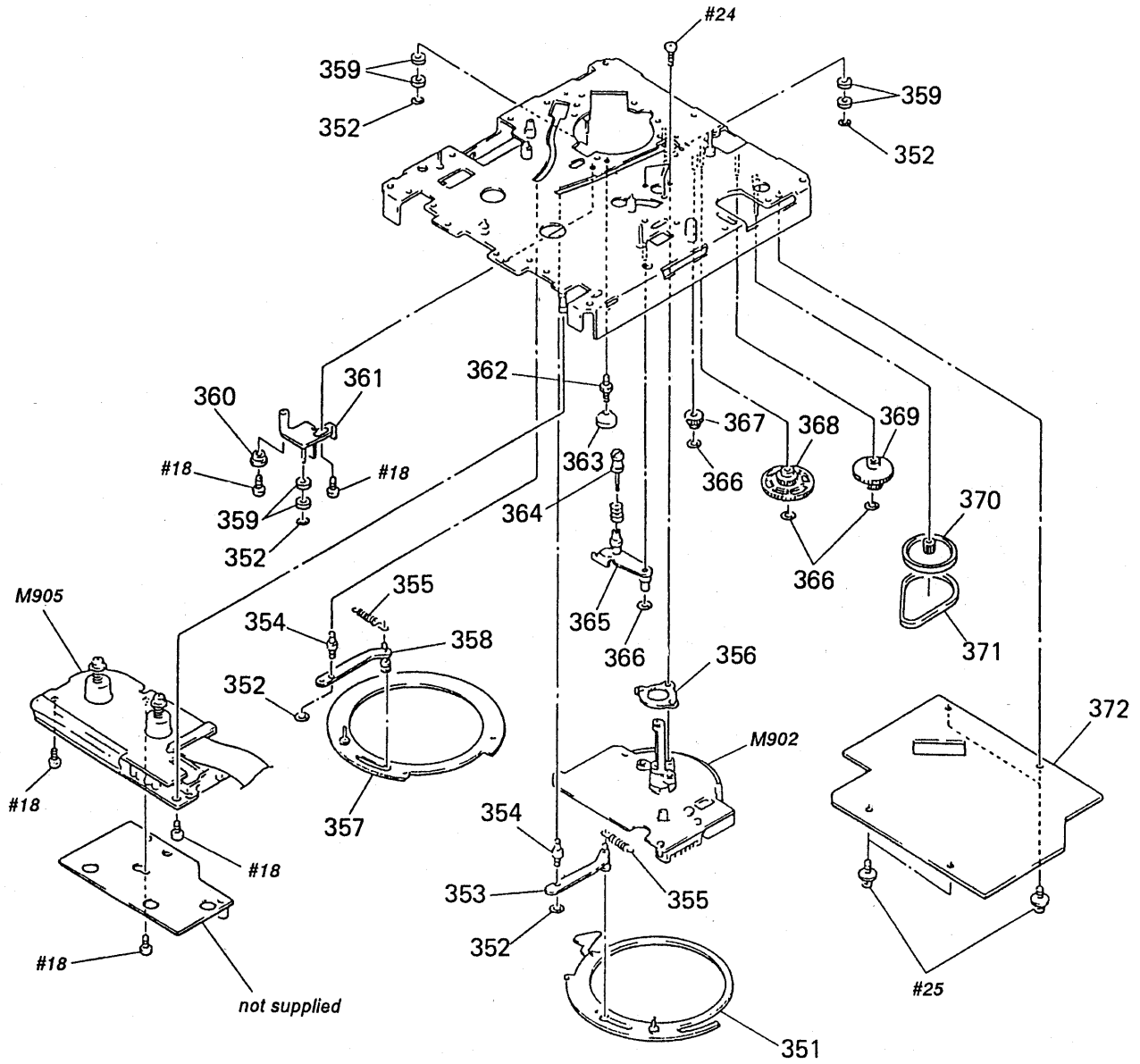
Ref. No.	Part No.	Description	Remark
251	* 1-637-605-11	T-SW BOARD	
252	* 1-637-604-11	S-SW BOARD	
253	3-344-781-01	WASHER, POLYETHYLENE	
254	3-307-375-00	SPRING, TENSION	
255	3-312-161-00	SCREW, STEP, PRECISION	
256	* 3-337-686-11	CASE (LOWER), SHIELD	
257	* 3-362-537-01	SHEET (RF)	
258	* A-2006-207-A	RF AMP (PB) BOARD, COMPLETE	
259	* A-2006-206-A	RF AMP (REC/PB) BOARD, COMPLETE	
260	3-362-148-01	SLIDER (PINCH)	
261	3-362-149-01	SLIDER (LIMITTER)	
262	3-564-035-00	SPRING, COMPRESSION	
263	2-623-756-01	SCREW, (B1.7X3), TAPPING	
264	3-703-502-11	SCREW	
265	* 1-637-601-11	LOADING MOTOR BOARD	
266	* 1-637-606-11	LOAD-SW BOARD	
267	* 1-637-603-11	T-END BOARD	
268	3-337-626-01	CAP, PINCH ROLLER	
269	X-3337-610-1	PINCH ROLLER ASSY	
270	3-701-436-11	WASHER, STOPPER	
271	X-3362-021-1	LEVER (PINCH ROLLER) ASSY	
272	3-367-352-01	SPRING (PINCH)	
273	3-366-886-01	SHEET (RF BRACKET)	
PM002	1-454-522-11	SOLENOID, PLUNGER	
MOTO11	A-2003-660-A	MOTOR ASSY (LOADING)	

(7) MECHANISM SECTION 4 (DATM-51)



Ref. No.	Part No.	Description	Remark
301	* 1-637-602-11	S-END BOARD	
302	X-3362-028-1	SLANT BLOCK (L2) ASSY	
303	3-325-698-01	RING, RETAINING	
304	X-3362-027-1	GUIDE ASSY, ROLLER	
305	3-362-152-01	SCREW (RETURN GUIDE BOSS)	
306	* 3-337-685-01	CATCHER	
307	8-848-549-01	DRUM ASSY DOU-15A	
308	3-701-436-11	WASHER, STOPPER	
309	3-307-375-00	SPRING, TENSION	
310	A-2003-487-A	ARM (CLEANING) ASSY	
311	X-3362-029-1	SLANT BLOCK (R2) ASSY	
312	3-701-437-01	SHEET (CATCHER)	
313	3-352-518-01	ROLLER (CLEANER)	
314	3-353-812-01	COLLAR (ROLLER)	
315	3-573-470-00	SPRING, COMPRESSION	

(8) MECHANISM SECTION 5 (DATM-51)



Ref. No.		Part No.	Description	Remark
351		X-3362-204-1	GEAR (LOAD) ASSY	
352		3-559-408-11	WASHER, POLYETHYLENE, DIA. 1.2	
353	*	X-3362-025-1	LEVER (LOADING R) ASSY	
354		3-362-151-01	BOSS (GUIDE)	
355		3-337-653-01	SPRING, TENSION	
356	*	3-362-156-01	BRACKET (CAPSTAN)	
357		X-3337-602-1	RING (LEFT) ASSY, LOADING	
358	*	X-3362-024-1	LEVER (LOADING L) ASSY	
359		3-337-622-01	ROLLER, RING	
360	*	3-362-158-01	COLLAR (RING ADJUSTMENT)	
361	*	X-3362-023-1	ARM (RING ROLLER) ASSY	
362	*	3-362-159-01	SHAFT (RING ADJUSTMENT)	

Ref. No.		Part No.	Description	Remark
363		3-362-160-01	NUT (RING ADJUSTMENT)	
364		X-3362-027-1	GUIDE ASSY, ROLLER	
365	*	X-3362-020-1	LEVER (F GUIDE) ASSY	
366		3-701-436-11	WASHER, STOPPER	
367		3-345-182-01	GEAR (LOADING B)	
368		3-345-181-01	GEAR (LOADING A)	
369		3-362-155-01	GEAR (A)	
370		4-932-338-01	PULLEY (A)	
371		4-913-325-01	BELT, TAKE-UP	
372	*	A-2006-382-A	MD BOARD, COMPLETE	
M902		8-835-306-01	MOTOR, DC U-17A	
M905	*	8-835-205-01	MOTOR, DC U-2A	

SECTION 7
ELECTRICAL PARTS LIST

RF AMP (REC/PB)

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

When including parts by reference number, please include the board name.

Ref.No.	Part No.	Description		Remark
	* A-2006-206-A	RF AMP (REC/PB) BOARD, COMPLETE		
		**********		
		〈CAPACITOR〉		
C951	1-164-005-11	CERAMIC CHIP 0.47uF		25V
C953	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C954	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C955	1-164-005-11	CERAMIC CHIP 0.47uF		25V
C956	1-124-778-00	ELECT CHIP 22uF	20%	6.3V
C957	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C958	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C959	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C960	1-163-011-11	CERAMIC CHIP 0.0015uF	10%	50V
C961	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C962	1-164-004-11	CERAMIC CHIP 0.1uF	10%	25V
C963	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C965	1-164-298-11	CERAMIC CHIP 0.15uF	10%	25V
C966	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C967	1-124-778-00	ELECT CHIP 22uF	20%	6.3V
C968	1-163-038-00	CERAMIC CHIP 0.1uF		25V
C969	1-164-005-11	CERAMIC CHIP 0.47uF		25V
C971	1-164-298-11	CERAMIC CHIP 0.15uF	10%	25V
C973	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C974	1-164-004-11	CERAMIC CHIP 0.1uF	10%	25V
C975	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C976	1-163-011-11	CERAMIC CHIP 0.0015uF	10%	50V
C977	1-163-020-00	CERAMIC CHIP 0.0082uF	10%	50V
C978	1-162-638-11	CERAMIC CHIP 1uF		16V
C979	1-163-020-00	CERAMIC CHIP 0.0082uF	10%	50V
C980	1-163-809-11	CERAMIC CHIP 0.047uF	10%	25V
C981	1-163-809-11	CERAMIC CHIP 0.047uF	10%	25V
C982	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C983	1-164-232-11	CERAMIC CHIP 0.01uF		50V
C984	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C985	1-163-005-11	CERAMIC CHIP 470PF	10%	50V

Ref.No.	Part No.	Description			Remark
		〈CONNECTOR〉			
CN951	1-569-349-11	CONNECTOR, F.P.C 6P			
CN952	* 1-564-728-11	PIN, CONNECTOR (SMALL TYPE)12P			
		〈IC〉			
IC951	8-752-032-26	IC CXA1045Q-Z			
		〈INDUCTOR〉			
L951	1-408-777-00	INDUCTOR CHIP 10uH			
L952	1-408-791-00	INDUCTOR CHIP 150uH			
L953	1-408-791-00	INDUCTOR CHIP 150uH			
		〈RESISTOR〉			
R951	1-216-056-00	METAL GLAZE	2K	5% 1/10W	
R952	1-216-056-00	METAL GLAZE	2K	5% 1/10W	
R953	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R954	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R955	1-216-089-00	METAL CHIP	47K	5% 1/10W	
R956	1-216-083-00	METAL CHIP	27K	5% 1/10W	
R957	1-216-063-00	METAL CHIP	3.9K	5% 1/10W	
R958	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R959	1-216-067-00	METAL CHIP	5.6K	5% 1/10W	
R960	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R961	1-216-079-00	METAL CHIP	18K	5% 1/10W	
R962	1-216-067-00	METAL CHIP	5.6K	5% 1/10W	
R963	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R964	1-216-083-00	METAL CHIP	27K	5% 1/10W	
R965	1-216-063-00	METAL CHIP	3.9K	5% 1/10W	
R966	1-216-089-00	METAL CHIP	47K	5% 1/10W	
R967	1-216-089-00	METAL CHIP	47K	5% 1/10W	
R968	1-216-089-00	METAL CHIP	47K	5% 1/10W	
R969	1-216-075-00	METAL CHIP	12K	5% 1/10W	
R970	1-216-082-00	METAL GLAZE	24K	5% 1/10W	
R971	1-216-748-11	METAL CHIP	39K	5% 1/10W	
R972	1-216-295-00	METAL CHIP	0	5% 1/10W	
R973	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R974	1-216-073-00	METAL CHIP	10K	5% 1/10W	

RF AMP (REC/PB) RF AMP (PB) AUDIO

Ref.No.	Part No.	Description			Remark
		〈VARIABLE RESISTOR〉			
RV951	1-238-237-11	RES, ADJ, CERMET 470			
RV952	1-238-237-11	RES, ADJ, CERMET 470			
**********					
	* A-2006-207-A	RF AMP (PB) BOARD, COMPLETE			
		**********			
		〈CAPACITOR〉			
C51	1-124-779-00	ELECT CHIP	10uF	20%	16v
C52	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C53	1-162-638-11	CERAMIC CHIP	1uF		16V
C54	1-164-299-11	CERAMIC CHIP	0.22uF	10%	25V
C55	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C57	1-124-779-00	ELECT CHIP	10uF	20%	16v
C58	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C59	1-164-299-11	CERAMIC CHIP	0.22uF	10%	25V
C60	1-162-638-11	CERAMIC CHIP	1uF		16V
C61	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C62	1-124-779-00	ELECT CHIP	10uF	20%	16v
C63	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C64	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C66	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C69	1-124-779-00	ELECT CHIP	10uF	20%	16v
C70	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C71	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C72	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		〈CONNECTOR〉			
CN51	1-569-349-11	CONNECTOR, F.P.C 6P			
CN52	* 1-564-725-11	PIN, CONNECTOR (SMALL TYPE) 9P			
		〈IC〉			
IC51	8-752-039-01	IC CXA1364R			
		〈INDUCTOR〉			
L51	1-408-781-00	INDUCTOR CHIP 22uH			
L52	1-408-789-21	INDUCTOR, CHIP 100uH			
L53	1-408-781-00	INDUCTOR CHIP 22uH			
		〈TRANSISTOR〉			
Q51	8-729-901-01	TRANSISTOR DTC144EK			
Q52	8-729-901-01	TRANSISTOR DTC144EK			
Q53	8-729-901-01	TRANSISTOR DTC144EK			
Q54	8-729-901-01	TRANSISTOR DTC144EK			
Q55	8-729-901-01	TRANSISTOR DTC144EK			

Ref.No.	Part No.	Description			Remark
		〈RESISTOR〉			
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R52	1-216-077-00	METAL CHIP	15K	5%	1/10W
R53	1-216-077-00	METAL CHIP	15K	5%	1/10W
R54	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R55	1-216-083-00	METAL CHIP	27K	5%	1/10W
R56	1-216-089-00	METAL CHIP	47K	5%	1/10W
R57	1-216-084-00	METAL GLAZE	30K	5%	1/10W
R58	1-216-085-00	METAL CHIP	33K	5%	1/10W
R59	1-216-085-00	METAL CHIP	33K	5%	1/10W
R60	1-216-748-11	METAL CHIP	39K	5%	1/10W
R61	1-216-075-00	METAL CHIP	12K	5%	1/10W
R62	1-216-077-00	METAL CHIP	15K	5%	1/10W
R63	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
**********					
	* A-2006-607-A	AUDIO BOARD, COMPLETE			
		**********			
	1-568-129-11	BAR, BUS 8P			
	* 1-568-130-11	BAR, BUS 3P			
	7-682-147-15	SCREW, TR			
	* 3-346-266-12	PLATE, GROUND			
	4-352-844-01	PIN, LEAD, COATING			
	* 4-931-401-01	HEAT SINK, V.OUT			
		〈CAPACITOR〉			
C101	1-124-915-11	ELECT	10uF	20%	63V
C102	1-136-153-00	FILM	0.01uF	5%	50V
C103	1-136-153-00	FILM	0.01uF	5%	50V
C168	1-136-811-11	FILM	330PF	5%	100V
C169	1-136-808-11	FILM	100PF	5%	100V
C170	1-136-808-11	FILM	100PF	5%	100V
C171	1-136-234-11	FILM	0.0062uF	3%	100V
C172	1-136-808-11	FILM	100PF	5%	100V
C173	1-136-234-11	FILM	0.0062uF	3%	100V
C174	1-136-808-11	FILM	100PF	5%	100V
C175	1-136-228-11	FILM	0.0012uF	3%	100V
C176	1-136-233-11	FILM	0.0047uF	3%	100V
C177	1-124-918-11	ELECT	47uF	20%	63V
C178	1-109-621-00	MICA	220PF	1%	500V
C201	1-124-915-11	ELECT	10uF	20%	63V
C202	1-136-153-00	FILM	0.01uF	5%	50V
C203	1-136-153-00	FILM	0.01uF	5%	50V
C268	1-136-811-11	FILM	330PF	5%	100V
C269	1-136-808-11	FILM	100PF	5%	100V
C270	1-136-808-11	FILM	100PF	5%	100V
C271	1-136-234-11	FILM	0.0062uF	3%	100V
C272	1-136-808-11	FILM	100PF	5%	100V
C273	1-136-234-11	FILM	0.0062uF	3%	100V
C274	1-136-808-11	FILM	100PF	5%	100V

Ref. No.	Part No.	Description			Remark
C275	1-136-228-11	FILM	0.0012uF	3%	100V
C276	1-136-233-11	FILM	0.0047uF	3%	100V
C277	1-124-918-11	ELECT	47uF	20%	63V
C278	1-109-621-00	MICA	220PF	1%	500V
C301	1-124-915-11	ELECT	10uF	20%	63V
C302	1-136-165-00	FILM	0.1uF	5%	50V
C303	1-136-165-00	FILM	0.1uF	5%	50V
C304	1-136-165-00	FILM	0.1uF	5%	50V
C305	1-136-165-00	FILM	0.1uF	5%	50V
C306	1-124-484-11	ELECT	220uF	20%	35V
C307	1-124-484-11	ELECT	220uF	20%	35V
C310	1-124-713-11	ELECT	470uF	20%	35V
C311	1-136-165-00	FILM	0.1uF	5%	50V
C312	1-124-713-11	ELECT	470uF	20%	35V
C313	1-136-165-00	FILM	0.1uF	5%	50V
C314	1-124-484-11	ELECT	220uF	20%	35V
C315	1-136-165-00	FILM	0.1uF	5%	50V
C316	1-136-165-00	FILM	0.1uF	5%	50V
C317	1-124-918-11	ELECT	47uF	20%	63V
C318	1-136-165-00	FILM	0.1uF	5%	50V
C319	1-136-165-00	FILM	0.1uF	5%	50V
C320	1-136-165-00	FILM	0.1uF	5%	50V
C325	1-126-329-11	ELECT	470uF	20%	50V
C326	1-126-329-11	ELECT	470uF	20%	50V
C327	1-124-130-00	ELECT	100uF	20%	63V
C328	1-124-130-00	ELECT	100uF	20%	63V
C329	1-107-210-00	MICA	22PF	5%	500V
C330	1-107-210-00	MICA	22PF	5%	500V
C331	1-124-922-11	ELECT	1000uF	20%	63V
C332	1-124-922-11	ELECT	1000uF	20%	63V
C333	1-124-484-11	ELECT	220uF	20%	35V
C334	1-136-165-00	FILM	0.1uF	5%	50V
C335	1-136-165-00	FILM	0.1uF	5%	50V
C337	1-124-122-11	ELECT	100uF	20%	50V
C338	1-136-165-00	FILM	0.1uF	5%	50V
C339	1-136-165-00	FILM	0.1uF	5%	50V
C340	1-136-165-00	FILM	0.1uF	5%	50V
C341	1-124-122-11	ELECT	100uF	20%	50V
C342	1-136-165-00	FILM	0.1uF	5%	50V
C343	1-136-165-00	FILM	0.1uF	5%	50V
C344	1-124-122-11	ELECT	100uF	20%	50V
C345	1-136-165-00	FILM	0.1uF	5%	50V
C346	1-124-122-11	ELECT	100uF	20%	50V
C347	1-136-165-00	FILM	0.1uF	5%	50V
C348	1-124-122-11	ELECT	100uF	20%	50V
C349	1-136-165-00	FILM	0.1uF	5%	50V
C363	1-136-153-00	FILM	0.01uF	5%	50V
C364	1-162-284-31	CERAMIC	150PF	10%	50V
C365	1-162-199-31	CERAMIC	10PF	5%	50V
C366	1-124-122-11	ELECT	100uF	20%	50V
C367	1-162-211-31	CERAMIC	33PF	5%	50V
C368	1-162-199-31	CERAMIC	10PF	5%	50V
C370	1-136-157-00	FILM	0.022uF	5%	50V
C371	1-136-165-00	FILM	0.1uF	5%	50V
C372	1-136-165-00	FILM	0.1uF	5%	50V
C373	1-136-157-00	FILM	0.022uF	5%	50V
C374	1-136-177-00	FILM	1uF	5%	50V
C375	1-136-165-00	FILM	0.1uF	5%	50V
C376	1-124-484-11	ELECT	220uF	20%	35V
C377	1-124-484-11	ELECT	220uF	20%	35V
C378	1-124-713-11	ELECT	470uF	20%	35V
C379	1-124-713-11	ELECT	470uF	20%	35V
C380	1-124-915-11	ELECT	10uF	20%	63V
C381	1-124-713-11	ELECT	470uF	20%	35V
C382	1-136-165-00	FILM	0.1uF	5%	50V
C383	1-136-165-00	FILM	0.1uF	5%	50V
C384	1-136-165-00	FILM	0.1uF	5%	50V
C385	1-136-165-00	FILM	0.1uF	5%	50V
C386	1-124-484-11	ELECT	220uF	20%	35V
C387	1-124-484-11	ELECT	220uF	20%	35V
C389	1-124-122-11	ELECT	100uF	20%	50V
C390	1-136-157-00	FILM	0.022uF	5%	50V
C391	1-136-165-00	FILM	0.1uF	5%	50V

〈CONNECTOR〉

CN96	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN101	* 1-564-505-11	PLUG, CONNECTOR 2P	
CN102	* 1-564-505-11	PLUG, CONNECTOR 2P	
CN103	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN104	* 1-564-505-11	PLUG, CONNECTOR 2P	
CN201	* 1-564-505-11	PLUG, CONNECTOR 2P	
CN202	* 1-564-505-11	PLUG, CONNECTOR 2P	
CN203	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN204	* 1-564-505-11	PLUG, CONNECTOR 2P	
CN306	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN351	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P	
CN352	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	

〈DIODE〉

D101	8-719-107-94	DIODE 1SS202-1
D102	8-719-107-94	DIODE 1SS202-1
D201	8-719-107-94	DIODE 1SS202-1
D202	8-719-107-94	DIODE 1SS202-1
D325	8-719-902-87	DIODE EQB01-08Q
D326	8-719-902-87	DIODE EQB01-08Q
D349	8-719-200-77	DIODE 10E2N
D350	8-719-114-30	DIODE RD5.1JS-B2
D351	8-719-901-59	DIODE KV1320
D352	8-719-903-27	DIODE 1SS168

AUDIO

Ref. No.	Part No.	Description	Remark
D353	8-719-107-94	DIODE 1SS202-1	
D354	8-719-107-94	DIODE 1SS202-1	
D355	8-719-107-94	DIODE 1SS202-1	
D356	8-719-107-94	DIODE 1SS202-1	
D357	8-719-200-82	DIODE 11ES2	
D358	8-719-200-82	DIODE 11ES2	
D359	8-719-107-94	DIODE 1SS202-1	
		〈IC〉	
IC101	8-759-602-83	IC M5238P	
IC102	8-759-504-50	IC LF412CN/SL161841	
IC151	8-759-900-72	IC NE5532P	
IC152	8-759-900-72	IC NE5532P	
IC153	8-759-981-98	IC RC4560DD	
IC201	8-759-602-83	IC M5238P	
IC202	8-759-504-50	IC LF412CN/SL161841	
IC251	8-759-900-72	IC NE5532P	
IC252	8-759-900-72	IC NE5532P	
IC253	8-759-981-98	IC RC4560DD	
IC301	8-759-231-53	IC TA7805S	
IC302	8-759-245-79	IC TA7905S	
IC303	8-759-231-53	IC TA7805S	
IC304	8-759-999-09	IC CS5326-KP	
IC305	8-759-916-55	IC SN74HC175AN	
IC348	8-752-335-51	IC CXD2552Q-1	
IC350	8-759-999-32	IC SM5813APT	
IC351	8-759-917-18	IC SN74HCU04AN	
IC354	8-759-900-72	IC NE5532P	
IC355	8-759-634-55	IC M5F7805L-720	
IC356	8-759-604-30	IC M5F7808L	
IC357	8-759-917-11	IC SN74HC393AN	
IC358	8-759-250-81	IC TC5081AP	
IC359	8-759-031-58	IC SC7SU04F	
		〈INDUCTOR〉	
L351	1-410-324-11	INDUCTOR 4.7uH	
L352	1-460-042-11	COIL (WITH CORE)	
L353	1-460-042-11	COIL (WITH CORE)	
L355	1-410-324-11	INDUCTOR 4.7uH	
		〈TRANSISTOR〉	
Q325	8-729-204-90	TRANSISTOR 2SK246GR1	
Q326	8-729-204-90	TRANSISTOR 2SK246GR1	
Q327	8-729-803-82	TRANSISTOR 2SC3468-E	
Q328	8-729-803-76	TRANSISTOR 2SA1371-E	
Q329	8-729-127-53	TRANSISTOR 2SC2275-P	
Q330	8-729-141-10	TRANSISTOR 2SA985A-QP	
Q331	8-729-803-76	TRANSISTOR 2SA1371-E	
Q332	8-729-803-82	TRANSISTOR 2SC3468-E	
Q333	8-729-803-82	TRANSISTOR 2SC3468-E	
Q334	8-729-803-76	TRANSISTOR 2SA1371-E	
Q350	8-729-127-53	TRANSISTOR 2SC2275-P	
Q351	8-729-900-61	TRANSISTOR DTA114ES	
Q352	8-729-200-56	TRANSISTOR 2SK241GR	
Q353	8-729-200-56	TRANSISTOR 2SK241GR	
Q354	8-729-900-61	TRANSISTOR DTA114ES	
Q355	8-729-900-80	TRANSISTOR DTC114ES	
Q356	8-729-900-61	TRANSISTOR DTA114ES	
Q357	8-729-900-80	TRANSISTOR DTC114ES	
Q358	8-729-900-80	TRANSISTOR DTC114ES	
Q359	8-729-900-61	TRANSISTOR DTA114ES	
		〈RESISTOR〉	
R103	1-246-545-00	CARBON 1.0M 5% 1/4W	
R104	1-247-717-11	CARBON 2.2K 5% 1/4W	
R105	1-249-462-11	CARBON 22K 5% 1/4W	
R106	1-249-469-11	CARBON 100K 5% 1/4W	
R107	1-249-520-11	CARBON 47 5% 1/4W	
R108	1-249-512-11	CARBON 22 5% 1/4W	
R109	1-249-524-11	CARBON 68 5% 1/4W	
R152	1-249-946-11	CARBON 9.1K 1% 1/4W	
R153	1-249-946-11	CARBON 9.1K 1% 1/4W	
R155	1-247-721-11	CARBON 4.7K 5% 1/4W	
R157	1-247-721-11	CARBON 4.7K 5% 1/4W	
R158	1-247-193-00	CARBON 22K 1% 1/4W	
R159	1-247-193-00	CARBON 22K 1% 1/4W	
R160	1-249-941-11	CARBON 5.6K 1% 1/4W	
R161	1-249-932-11	CARBON 2.4K 1% 1/4W	
R162	1-246-545-00	CARBON 1.0M 5% 1/4W	
R163	1-249-941-11	CARBON 5.6K 1% 1/4W	
R164	1-249-941-11	CARBON 5.6K 1% 1/4W	
R165	1-249-941-11	CARBON 5.6K 1% 1/4W	
R166	1-249-932-11	CARBON 2.4K 1% 1/4W	
R167	1-246-545-00	CARBON 1.0M 5% 1/4W	
R168	1-249-556-11	CARBON 1.5K 5% 1/4W	
R169	1-249-556-11	CARBON 1.5K 5% 1/4W	
R170	1-249-469-11	CARBON 100K 5% 1/4W	
R171	1-247-704-11	CARBON 220 5% 1/4W	
R173	1-247-721-11	CARBON 4.7K 5% 1/4W	
R174	1-249-462-11	CARBON 22K 5% 1/4W	
R175	1-247-700-11	CARBON 100 5% 1/4W	
R177	1-249-497-11	CARBON 33K 5% 1/4W	
R203	1-246-545-00	CARBON 1.0M 5% 1/4W	
R204	1-247-717-11	CARBON 2.2K 5% 1/4W	
R205	1-249-462-11	CARBON 22K 5% 1/4W	
R206	1-249-469-11	CARBON 100K 5% 1/4W	
R207	1-249-520-11	CARBON 47 5% 1/4W	
R208	1-249-512-11	CARBON 22 5% 1/4W	
R209	1-249-524-11	CARBON 68 5% 1/4W	
R252	1-249-946-11	CARBON 9.1K 1% 1/4W	
R253	1-249-946-11	CARBON 9.1K 1% 1/4W	
R254	1-247-721-11	CARBON 4.7K 5% 1/4W	

Ref. No.	Part No.	Description				Remark
R256	1-247-721-11	CARBON	4.7K	5%	1/4W	
R258	1-247-193-00	CARBON	22K	1%	1/4W	
R259	1-247-193-00	CARBON	22K	1%	1/4W	
R260	1-249-941-11	CARBON	5.6K	1%	1/4W	
R261	1-249-932-11	CARBON	2.4K	1%	1/4W	
R262	1-246-545-00	CARBON	1.0M	5%	1/4W	
R263	1-249-941-11	CARBON	5.6K	1%	1/4W	
R264	1-249-941-11	CARBON	5.6K	1%	1/4W	
R265	1-249-941-11	CARBON	5.6K	1%	1/4W	
R266	1-249-932-11	CARBON	2.4K	1%	1/4W	
R267	1-246-545-00	CARBON	1.0M	5%	1/4W	
R268	1-249-556-11	CARBON	1.5K	5%	1/4W	
R269	1-249-556-11	CARBON	1.5K	5%	1/4W	
R270	1-249-469-11	CARBON	100K	5%	1/4W	
R271	1-247-704-11	CARBON	220	5%	1/4W	
R273	1-247-721-11	CARBON	4.7K	5%	1/4W	
R274	1-249-462-11	CARBON	22K	5%	1/4W	
R275	1-247-700-11	CARBON	100	5%	1/4W	
R277	1-249-497-11	CARBON	33K	5%	1/4W	
R301	1-249-460-11	CARBON	15K	5%	1/4W	
R302	1-247-704-11	CARBON	220	5%	1/4W	
R303	1-249-504-11	CARBON	10	5%	1/4W	
R325	1-247-706-11	CARBON	330	5%	1/4W	
R326	1-247-706-11	CARBON	330	5%	1/4W	
R327	1-247-710-11	CARBON	560	5%	1/4W	
R328	1-247-710-11	CARBON	560	5%	1/4W	
R329	1-249-466-11	CARBON	56K	5%	1/4W	
R330	1-249-466-11	CARBON	56K	5%	1/4W	
R331	1-247-719-11	CARBON	3.3K	5%	1/4W	
R332	1-247-719-11	CARBON	3.3K	5%	1/4W	
R333	1-249-798-11	CARBON	680	5%	1/2W	
R334	1-249-798-11	CARBON	680	5%	1/2W	
R335	1-247-751-11	CARBON	820	5%	1/2W	
R336	1-247-751-11	CARBON	820	5%	1/2W	
R353	1-247-716-11	CARBON	1.8K	5%	1/4W	
R354	1-249-417-11	CARBON	1K	5%	1/4W	
R355	1-249-417-11	CARBON	1K	5%	1/4W	
R356	1-249-423-11	CARBON	3.3K	5%	1/4W	
R357	1-249-423-11	CARBON	3.3K	5%	1/4W	
R358	1-249-433-11	CARBON	22K	5%	1/4W	
R359	1-249-435-11	CARBON	33K	5%	1/4W	
R360	1-249-417-11	CARBON	1K	5%	1/4W	
R361	1-247-903-00	CARBON	1M	5%	1/4W	
R362	1-247-903-00	CARBON	1M	5%	1/4W	
R363	1-249-429-11	CARBON	10K	5%	1/4W	
R364	1-249-428-11	CARBON	8.2K	5%	1/4W	
R365	1-249-441-11	CARBON	100K	5%	1/4W	
R366	1-249-417-11	CARBON	1K	5%	1/4W	
R367	1-249-417-11	CARBON	1K	5%	1/4W	
R368	1-249-417-11	CARBON	1K	5%	1/4W	
R369	1-247-903-00	CARBON	1M	5%	1/4W	
R370	1-249-417-11	CARBON	1K	5%	1/4W	
R371 ⚠	1-212-857-00	FUSIBLE	10	5%	1/4W	F
R372 ⚠	1-212-857-00	FUSIBLE	10	5%	1/4W	F
R373	1-249-416-11	CARBON	820	5%	1/4W	
R374	1-249-416-11	CARBON	820	5%	1/4W	
R375	1-249-416-11	CARBON	820	5%	1/4W	
R376	1-249-413-11	CARBON	470	5%	1/4W	
R377	1-249-413-11	CARBON	470	5%	1/4W	
R378	1-249-413-11	CARBON	470	5%	1/4W	
R379	1-249-413-11	CARBON	470	5%	1/4W	
R380	1-249-413-11	CARBON	470	5%	1/4W	
R381	1-247-891-00	CARBON	330K	5%	1/4W	
R382	1-249-413-11	CARBON	470	5%	1/4W	
R383	1-249-405-11	CARBON	100	5%	1/4W	

〈RELAY〉

RY150	1-515-727-11	RELAY	
RY250	1-515-727-11	RELAY	
RY351	1-515-727-11	RELAY	
RY352	1-515-772-11	RELAY	

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* 1-640-285-11 BAL-CONV BOARD

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〈CAPACITOR〉

C801	1-126-022-11	ELECT	47uF	20%	25V
C802	1-162-199-31	CERAMIC	10PF	5%	50V
C803	1-136-165-00	FILM	0.1uF	5%	50V
C804	1-136-165-00	FILM	0.1uF	5%	50V
C805	1-162-213-31	CERAMIC	39PF	5%	50V
C806	1-162-213-31	CERAMIC	39PF	5%	50V
C807	1-136-165-00	FILM	0.1uF	5%	50V
C808	1-136-165-00	FILM	0.1uF	5%	50V
C811	1-136-165-00	FILM	0.1uF	5%	50V
C812	1-126-023-11	ELECT	100uF	20%	25V
C851	1-126-022-11	ELECT	47uF	20%	25V
C852	1-162-199-31	CERAMIC	10PF	5%	50V
C853	1-136-165-00	FILM	0.1uF	5%	50V
C854	1-136-165-00	FILM	0.1uF	5%	50V
C855	1-162-213-31	CERAMIC	39PF	5%	50V
C856	1-162-213-31	CERAMIC	39PF	5%	50V
C857	1-136-165-00	FILM	0.1uF	5%	50V
C858	1-136-165-00	FILM	0.1uF	5%	50V
C861	1-136-165-00	FILM	0.1uF	5%	50V
C862	1-126-023-11	ELECT	100uF	20%	25V

〈CONNECTOR〉

CN803	* 1-564-507-11	PLUG, CONNECTOR 4P
CN804	* 1-564-507-11	PLUG, CONNECTOR 4P

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

BAL-CONV BAL-IN BAL-OUT

Ref.No.	Part No.	Description				Remark
		〈DIODE〉				
D801	8-719-912-20	DIODE 1SS120				
D802	8-719-912-20	DIODE 1SS120				
D851	8-719-912-20	DIODE 1SS120				
D852	8-719-912-20	DIODE 1SS120				
		〈IC〉				
IC801	8-759-900-72	IC NE5532P				
IC802	8-759-900-72	IC NE5532P				
IC803	8-759-900-72	IC NE5532P				
IC804	8-759-711-18	IC NJM4556D-D				
IC805	8-759-900-72	IC NE5532P				
IC806	8-759-900-72	IC NE5532P				
IC807	8-759-711-18	IC NJM4556D-D				
		〈RESISTOR〉				
R801	1-215-453-00	METAL	22K	1%	1/6W	
R802	1-215-453-00	METAL	22K	1%	1/6W	
R803	1-215-439-00	METAL	5.6K	1%	1/6W	
R804	1-215-439-00	METAL	5.6K	1%	1/6W	
R805	1-215-421-00	METAL	1K	1%	1/6W	
R806	1-215-415-00	METAL	560	1%	1/6W	
R807	1-215-415-00	METAL	560	1%	1/6W	
R808	1-215-415-00	METAL	560	1%	1/6W	
R809	1-215-469-00	METAL	100K	1%	1/6W	
R810	1-215-421-00	METAL	1K	1%	1/6W	
R811	1-215-433-00	METAL	3.3K	1%	1/6W	
R812	1-215-445-00	METAL	10K	1%	1/6W	
R813	1-215-445-00	METAL	10K	1%	1/6W	
R814	1-215-437-00	METAL	4.7K	1%	1/6W	
R815	1-215-447-00	METAL	12K	1%	1/6W	
R816	1-215-437-00	METAL	4.7K	1%	1/6W	
R817	1-215-447-00	METAL	12K	1%	1/6W	
R818	1-215-447-00	METAL	12K	1%	1/6W	
R819	1-215-437-00	METAL	4.7K	1%	1/6W	
R820	1-215-401-11	METAL	150	1%	1/6W	
R821	1-215-447-00	METAL	12K	1%	1/6W	
R822	1-215-437-00	METAL	4.7K	1%	1/6W	
R823	1-215-401-11	METAL	150	1%	1/6W	
R851	1-215-453-00	METAL	22K	1%	1/6W	
R852	1-215-453-00	METAL	22K	1%	1/6W	
R853	1-215-439-00	METAL	5.6K	1%	1/6W	
R854	1-215-439-00	METAL	5.6K	1%	1/6W	
R855	1-215-421-00	METAL	1K	1%	1/6W	
R856	1-215-415-00	METAL	560	1%	1/6W	
R857	1-215-415-00	METAL	560	1%	1/6W	
R858	1-215-415-00	METAL	560	1%	1/6W	
R859	1-215-469-00	METAL	100K	1%	1/6W	
R860	1-215-421-00	METAL	1K	1%	1/6W	
R861	1-215-433-00	METAL	3.3K	1%	1/6W	
R862	1-215-445-00	METAL	10K	1%	1/6W	
R863	1-215-445-00	METAL	10K	1%	1/6W	
R864	1-215-437-00	METAL	4.7K	1%	1/6W	
R865	1-215-447-00	METAL	12K	1%	1/6W	
R866	1-215-437-00	METAL	4.7K	1%	1/6W	
R867	1-215-447-00	METAL	12K	1%	1/6W	
R868	1-215-447-00	METAL	12K	1%	1/6W	
R869	1-215-437-00	METAL	4.7K	1%	1/6W	
R870	1-215-401-11	METAL	150	1%	1/6W	
R871	1-215-447-00	METAL	12K	1%	1/6W	
R872	1-215-437-00	METAL	4.7K	1%	1/6W	
R873	1-215-401-11	METAL	150	1%	1/6W	
		〈VARIABLE RESISTOR〉				
RV801	1-230-523-11	RES, ADJ, METAL10K				
RV802	1-230-523-11	RES, ADJ, METAL10K				
RV803	1-230-523-11	RES, ADJ, METAL10K				
RV804	1-230-523-11	RES, ADJ, METAL10K				
**********						
*	1-640-286-11	BAL-IN BOARD				
		**********				
	4-352-844-01	PIN, LEAD, COATING				
		〈CONNECTOR〉				
CN806	* 1-564-509-11	PLUG, CONNECTOR 6P				
J801	1-568-006-11	CONNECTOR, XLR TYPE 3P				
J802	1-568-006-11	CONNECTOR, XLR TYPE 3P				
**********						
*	1-640-287-11	BAL-OUT BOARD				
		**********				
		〈CAPACITOR〉				
C809	1-126-024-11	ELECT	220uF	20%	25V	
C810	1-126-024-11	ELECT	220uF	20%	25V	
C859	1-126-024-11	ELECT	220uF	20%	25V	
C860	1-126-024-11	ELECT	220uF	20%	25V	
		〈CONNECTOR〉				
CN807	* 1-564-521-11	PLUG, CONNECTOR 6P				
J803	1-568-005-11	CONNECTOR, XLR TYPE 3P(ANALOG IN CH1(L))				
J804	1-568-005-11	CONNECTOR, XLR TYPE 3P(ANALOG IN CH1(R))				
		〈RESISTOR〉				
R824	1-215-469-00	METAL	100K	1%	1/6W	
R825	1-215-469-00	METAL	100K	1%	1/6W	
R874	1-215-469-00	METAL	100K	1%	1/6W	
R875	1-215-469-00	METAL	100K	1%	1/6W	

BATTERY | CONTROL SW

Ref.No.	Part No.	Description			Remark
**********					
	* 1-637-626-11	BATTERY BOARD			
		**********			
		〈BATTERY〉			
BATT01	⚠1-528-229-11	BATTERY, LITHIUM CR-2450			
**********					
	* A-2006-601-A	CONTROL SW BOARD, COMPLETE			
		**********			
	9-911-839-XX	CUSHION			
	* 4-911-676-01	SPACER, LED			
		〈CAPACITOR〉			
C702	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C703	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C704	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C705	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C706	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C708	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C709	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C710	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C711	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C712	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C713	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C714	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C715	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C722	1-124-779-00	ELECT CHIP	10uF	20%	16v
C723	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C724	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C725	1-163-227-11	CERAMIC CHIP	10PF	5%	50V
C726	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		〈CONNECTOR〉			
CN772	* 1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN773	* 1-564-339-00	PIN, CONNECTOR 5P			
		〈TRIMMER〉			
CT701	1-141-334-11	CAP, VAR, TRIMMER			
		〈DIODE〉			
D701	8-719-304-16	DIODE SEL2510W-D			
D702	8-719-918-76	DIODE GL-3PR9			
D705	8-719-934-34	DIODE AA3432S			
D706	8-719-934-34	DIODE AA3432S			
D707	8-719-304-16	DIODE SEL2510W-D			
D709	8-719-934-34	DIODE AA3432S			
D710	8-719-934-34	DIODE AA3432S			

Ref.No.	Part No.	Description	Remark
D711	8-719-934-34	DIODE AA3432S	
D712	8-719-934-34	DIODE AA3432S	
D713	8-719-934-34	DIODE AA3432S	
D714	8-719-934-34	DIODE AA3432S	
D715	8-719-934-34	DIODE AA3432S	
D716	8-719-934-34	DIODE AA3432S	
D718	8-719-938-75	DIODE SB05-05CP	
D719	8-719-938-75	DIODE SB05-05CP	
D720	8-719-938-75	DIODE SB05-05CP	
D721	8-719-938-75	DIODE SB05-05CP	
		〈FLUORESCENT INDICATOR TUBE〉	
FL701	1-519-601-11	INDICATOR TUBE, FLUORESCENT	
		〈IC〉	
IC701	8-759-520-54	IC MSC62408-027GS-K	
IC702	8-752-326-33	IC CXK1011M	
IC703	8-759-009-05	IC MC14051BF	
IC704	8-759-009-05	IC MC14051BF	
IC705	8-759-009-10	IC MC14069UBF	
IC706	8-759-502-84	IC LM393M	
IC707	8-759-630-70	IC M50782FP	
IC709	8-759-500-05	IC MSM6338MS-K	
IC712	8-759-504-23	IC RF5C62	
		〈TRANSISTOR〉	
Q701	8-729-901-04	TRANSISTOR DTA114EK	
Q702	8-729-901-04	TRANSISTOR DTA114EK	
Q705	8-729-901-04	TRANSISTOR DTA114EK	
Q706	8-729-901-04	TRANSISTOR DTA114EK	
Q707	8-729-901-04	TRANSISTOR DTA114EK	
Q709	8-729-901-04	TRANSISTOR DTA114EK	
Q710	8-729-901-04	TRANSISTOR DTA114EK	
Q711	8-729-901-04	TRANSISTOR DTA114EK	
Q712	8-729-901-04	TRANSISTOR DTA114EK	
Q713	8-729-901-04	TRANSISTOR DTA114EK	
Q714	8-729-901-04	TRANSISTOR DTA114EK	
Q715	8-729-901-04	TRANSISTOR DTA114EK	
Q716	8-729-901-04	TRANSISTOR DTA114EK	
Q717	8-729-901-04	TRANSISTOR DTA114EK	
Q718	8-729-807-16	TRANSISTOR 2SD1621-R	
Q719	8-729-900-98	TRANSISTOR DTC143TK	
Q720	8-729-900-98	TRANSISTOR DTC143TK	
Q721	8-729-900-98	TRANSISTOR DTC143TK	
Q722	8-729-900-98	TRANSISTOR DTC143TK	
Q723	8-729-900-98	TRANSISTOR DTC143TK	
Q724	8-729-900-98	TRANSISTOR DTC143TK	
Q725	8-729-900-98	TRANSISTOR DTC143TK	
Q726	8-729-900-98	TRANSISTOR DTC143TK	
Q727	8-729-807-16	TRANSISTOR 2SD1621-R	

CONTROL SW

Ref. No.	Part No.	Description				Remark
Q728	8-729-100-66	TRANSISTOR 2SC1623-L6				
Q730	8-729-901-00	TRANSISTOR DTC124EK				
Q732	8-729-807-16	TRANSISTOR 2SD1621-R				
		〈RESISTOR〉				
R701	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R702	1-216-045-00	METAL CHIP	680	5%	1/10W	
R703	1-216-047-00	METAL CHIP	820	5%	1/10W	
R704	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R705	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R706	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R707	1-216-045-00	METAL CHIP	680	5%	1/10W	
R708	1-216-047-00	METAL CHIP	820	5%	1/10W	
R709	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R710	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R711	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R712	1-216-045-00	METAL CHIP	680	5%	1/10W	
R713	1-216-047-00	METAL CHIP	820	5%	1/10W	
R714	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R715	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R716	1-216-045-00	METAL CHIP	680	5%	1/10W	
R717	1-216-047-00	METAL CHIP	820	5%	1/10W	
R718	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R719	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R720	1-216-045-00	METAL CHIP	680	5%	1/10W	
R721	1-216-047-00	METAL CHIP	820	5%	1/10W	
R722	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R723	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R724	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R725	1-216-045-00	METAL CHIP	680	5%	1/10W	
R726	1-216-047-00	METAL CHIP	820	5%	1/10W	
R727	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R728	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R729	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R730	1-216-045-00	METAL CHIP	680	5%	1/10W	
R731	1-216-047-00	METAL CHIP	820	5%	1/10W	
R732	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R733	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R734	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R735	1-216-045-00	METAL CHIP	680	5%	1/10W	
R736	1-216-047-00	METAL CHIP	820	5%	1/10W	
R737	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R739	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R740	1-216-045-00	METAL CHIP	680	5%	1/10W	
R741	1-216-047-00	METAL CHIP	820	5%	1/10W	
R742	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R743	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R744	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R745	1-216-045-00	METAL CHIP	680	5%	1/10W	
R746	1-216-047-00	METAL CHIP	820	5%	1/10W	
R747	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R749	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R751	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R753	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R755	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R756	1-216-045-00	METAL CHIP	680	5%	1/10W	
R757	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R758	1-216-045-00	METAL CHIP	680	5%	1/10W	
R759	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R760	1-216-045-00	METAL CHIP	680	5%	1/10W	
R761	1-216-033-00	METAL CHIP	220	5%	1/10W	
R762	1-216-033-00	METAL CHIP	220	5%	1/10W	
R765	1-216-033-00	METAL CHIP	220	5%	1/10W	
R766	1-216-033-00	METAL CHIP	220	5%	1/10W	
R767	1-216-033-00	METAL CHIP	220	5%	1/10W	
R769	1-216-033-00	METAL CHIP	220	5%	1/10W	
R770	1-216-033-00	METAL CHIP	220	5%	1/10W	
R771	1-216-033-00	METAL CHIP	220	5%	1/10W	
R772	1-216-033-00	METAL CHIP	220	5%	1/10W	
R773	1-216-033-00	METAL CHIP	220	5%	1/10W	
R774	1-216-033-00	METAL CHIP	220	5%	1/10W	
R775	1-216-033-00	METAL CHIP	220	5%	1/10W	
R776	1-216-033-00	METAL CHIP	220	5%	1/10W	
R777	1-216-682-11	METAL CHIP	20K	0.5%	1/10W	
R778	1-216-682-11	METAL CHIP	20K	0.5%	1/10W	
R779	1-216-682-11	METAL CHIP	20K	0.5%	1/10W	
R780	1-216-682-11	METAL CHIP	20K	0.5%	1/10W	
R781	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R782	1-216-675-11	METAL CHIP	10K	0.5%	1/10W	
R783	1-216-675-11	METAL CHIP	10K	0.5%	1/10W	
R784	1-216-675-11	METAL CHIP	10K	0.5%	1/10W	
R785	1-216-682-11	METAL CHIP	20K	0.5%	1/10W	
R786	1-216-682-11	METAL CHIP	20K	0.5%	1/10W	
R787	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R788	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R789	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R790	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R791	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R792	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R793	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R794	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R795	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R796	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R797	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R800	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R801	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R802	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R803	1-216-047-00	METAL CHIP	820	5%	1/10W	
R804	1-216-047-00	METAL CHIP	820	5%	1/10W	
R805	⚠ 1-212-851-00	FUSIBLE	5.6	5%	1/4W	F

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description				Remark
R806	⚠ 1-212-851-00	FUSIBLE	5.6	5%	1/4W	F
R809	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R810	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R811	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	
R813	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R814	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R815	1-216-033-00	METAL CHIP	220	5%	1/10W	
R816	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R817	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R818	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R819	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R820	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R821	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R822	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R823	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R824	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R827	1-216-047-00	METAL CHIP	820	5%	1/10W	
R829	1-216-051-00	METAL CHIP	1.2K	5%	1/10W	

〈SWITCH〉

S701	1-554-937-11	SWITCH, KEY BOARD (▲ OPEN/CLOSE)
S702	1-554-937-11	SWITCH, KEY BOARD (■)
S704	1-554-937-11	SWITCH, KEY BOARD (▶)
S705	1-554-937-11	SWITCH, KEY BOARD (⏮)
S706	1-554-937-11	SWITCH, KEY BOARD (⏭)
S707	1-554-937-11	SWITCH, KEY BOARD (◀◀)
S708	1-554-937-11	SWITCH, KEY BOARD (▶▶)
S709	1-554-937-11	SWITCH, KEY BOARD (● REC)
S710	1-554-937-11	SWITCH, KEY BOARD (❚❚ PAUSE)
S711	1-554-937-11	SWITCH, KEY BOARD (○ REC MUTE)
S712	1-554-937-11	SWITCH, KEY BOARD (COUNTER MODE)
S713	1-554-937-11	SWITCH, KEY BOARD (COUNTER RESET)
S714	1-554-937-11	SWITCH, KEY BOARD (COUNTER MEMORY)
S715	1-554-937-11	SWITCH, KEY BOARD (DATE RECORDED)
S716	1-554-937-11	SWITCH, KEY BOARD (DATE PRESENT)
S717	1-554-937-11	SWITCH, KEY BOARD (SKIP PLAY)
S718	1-554-937-11	SWITCH, KEY BOARD (FADER)
S720	1-554-937-11	SWITCH, KEY BOARD (REPEAT)
S722	1-554-937-11	SWITCH, KEY BOARD (MARGIN RESET)
S723	1-554-937-11	SWITCH, KEY BOARD (1)
S724	1-554-937-11	SWITCH, KEY BOARD (2)
S725	1-554-937-11	SWITCH, KEY BOARD (3)
S726	1-554-937-11	SWITCH, KEY BOARD (CLOCK SET)
S727	1-554-937-11	SWITCH, KEY BOARD (4)
S728	1-554-937-11	SWITCH, KEY BOARD (5)
S729	1-554-937-11	SWITCH, KEY BOARD (6)
S730	1-554-937-11	SWITCH, KEY BOARD (MUSIC SCAN/+)
S731	1-554-937-11	SWITCH, KEY BOARD (CLEAR)
S732	1-554-937-11	SWITCH, KEY BOARD (7)
S733	1-554-937-11	SWITCH, KEY BOARD (8)
S734	1-554-937-11	SWITCH, KEY BOARD (9)
S735	1-554-937-11	SWITCH, KEY BOARD (0/-)
S736	1-554-937-11	SWITCH, KEY BOARD (START ID AUTO)
S737	1-554-937-11	SWITCH, KEY BOARD (START ID WRITE)
S738	1-554-937-11	SWITCH, KEY BOARD (SKIP ID WRITE)
S739	1-554-937-11	SWITCH, KEY BOARD (END ID WRITE)
S740	1-554-937-11	SWITCH, KEY BOARD (DISPLAY MODE)
S741	1-554-937-11	SWITCH, KEY BOARD (START ID RENUMBER)
S742	1-554-937-11	SWITCH, KEY BOARD (START ID ERASE)
S743	1-554-937-11	SWITCH, KEY BOARD (SKIP ID ERASE)
S744	1-554-937-11	SWITCH, KEY BOARD (END ID ERASE)

〈VIBRATOR〉

X701	1-567-775-11	VIBRATOR, CERAMIC (4.19MHz)
X702	1-567-098-00	CRYSTAL (32.8KHz)

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* 1-640-288-11 D-SUB BOARD

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〈CAPACITOR〉

C881	1-124-443-00	ELECT	100uF	20%	10V
C882	1-136-165-00	FILM	0.1uF	5%	50V
C883	1-162-306-11	CERAMIC	0.01uF	20%	16V
C884	1-162-294-31	CERAMIC	0.001uF	10%	50V
C885	1-162-294-31	CERAMIC	0.001uF	10%	50V
C886	1-162-294-31	CERAMIC	0.001uF	10%	50V
C887	1-162-294-31	CERAMIC	0.001uF	10%	50V
C888	1-162-294-31	CERAMIC	0.001uF	10%	50V
C889	1-162-294-31	CERAMIC	0.001uF	10%	50V
C890	1-162-294-31	CERAMIC	0.001uF	10%	50V
C891	1-162-294-31	CERAMIC	0.001uF	10%	50V
C892	1-162-294-31	CERAMIC	0.001uF	10%	50V

〈IC〉

IC808	8-759-041-98	IC TD62382AP
IC809	8-759-041-98	IC TD62382AP

〈CONNECTOR〉

J805	* 1-573-693-11	CONNECTOR, D-SUB 37P (REMOTE)

〈RESISTOR〉

R882	1-215-417-00	METAL	680	1%	1/6W
R883	1-215-419-00	METAL	820	1%	1/6W
R884	1-215-423-00	METAL	1.2K	1%	1/6W
R885	1-215-429-00	METAL	2.2K	1%	1/6W
R887	1-215-417-00	METAL	680	1%	1/6W
R888	1-215-419-00	METAL	820	1%	1/6W
R889	1-215-423-00	METAL	1.2K	1%	1/6W
R890	1-215-429-00	METAL	2.2K	1%	1/6W

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

D-SUB DIGITAL

Ref. No.	Part No.	Description				Remark
R891	1-215-445-00	METAL	10K	1%	1/6W	
R892	1-215-445-00	METAL	10K	1%	1/6W	
R893	1-215-445-00	METAL	10K	1%	1/6W	
R894	1-215-445-00	METAL	10K	1%	1/6W	
**********						
	* A-2006-608-A	DIGITAL BOARD, COMPLETE				
		**********				
	1-543-843-11	BEAD, FERRITE				
	4-352-844-01	PIN, LEAD, COATING				
		〈CONNECTOR〉				
BAT501	* 1-564-336-81	PIN, CONNECTOR 2P				
		〈CAPACITOR〉				
C502	1-126-022-11	ELECT	47uF	20%	16V	
C503	1-136-153-00	FILM	0.01uF	5%	50V	
C504	1-136-158-00	FILM	0.027uF	5%	50V	
C505	1-130-473-00	MYLAR	0.0015uF	5%	50V	
C506	1-126-022-11	ELECT	47uF	20%	10V	
C507	1-136-153-00	FILM	0.01uF	5%	50V	
C508	1-136-158-00	FILM	0.027uF	5%	50V	
C509	1-130-473-00	MYLAR	0.0015uF	5%	50V	
C510	1-126-022-11	ELECT	47uF	20%	10V	
C511	1-162-290-31	CERAMIC	470PF	10%	50V	
C512	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C513	1-126-049-11	ELECT	22uF	20%	10V	
C514	1-162-290-31	CERAMIC	470PF	10%	50V	
C515	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C516	1-126-049-11	ELECT	22uF	20%	10V	
C517	1-136-153-00	FILM	0.01uF	5%	50V	
C518	1-136-158-00	FILM	0.027uF	5%	50V	
C519	1-130-473-00	MYLAR	0.0015uF	5%	50V	
C520	1-136-153-00	FILM	0.01uF	5%	50V	
C521	1-130-473-00	MYLAR	0.0015uF	5%	50V	
C522	1-136-158-00	FILM	0.027uF	5%	50V	
C523	1-126-157-11	ELECT	10uF	20%	16V	
C524	1-126-022-11	ELECT	47uF	20%	16V	
C525	1-126-022-11	ELECT	47uF	20%	16V	
C527	1-136-165-00	FILM	0.1uF	5%	50V	
C528	1-126-049-11	ELECT	22uF	20%	10V	
C529	1-124-994-11	ELECT	100uF	20%	10V	
C535	1-136-165-00	FILM	0.1uF	5%	50V	
C536	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C537	1-136-153-00	FILM	0.01uF	5%	50V	
C538	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C539	1-136-153-00	FILM	0.01uF	5%	50V	
C540	1-126-022-11	ELECT	47uF	20%	10V	
C542	1-164-159-11	CERAMIC	0.1uF		50V	
C543	1-124-994-11	ELECT	100uF	20%	10V	

Ref. No.	Part No.	Description			Remark
C545	1-126-022-11	ELECT	47uF	20%	16V
C546	1-164-159-11	CERAMIC	0.1uF		50V
C547	1-164-159-11	CERAMIC	0.1uF		50V
C548	1-124-994-11	ELECT	100uF	20%	10V
C549	1-124-994-11	ELECT	100uF	20%	10V
C550	1-164-159-11	CERAMIC	0.1uF		50V
C551	1-164-159-11	CERAMIC	0.1uF		50V
C552	1-136-165-00	FILM	0.1uF	5%	50V
C553	1-136-177-00	FILM	1uF	5%	50V
C554	1-164-159-11	CERAMIC	0.1uF		50V
C555	1-164-159-11	CERAMIC	0.1uF		50V
C556	1-162-211-31	CERAMIC	33PF	5%	50V
C557	1-136-165-00	FILM	0.1uF	5%	50V
C558	1-161-379-00	CERAMIC	0.01uF	20%	25V
C559	1-126-157-11	ELECT	10uF	20%	16V
C560	1-126-022-11	ELECT	47uF	20%	10V
C561	1-164-159-11	CERAMIC	0.1uF		50V
C562	1-162-201-31	CERAMIC	12PF	5%	50V
C563	1-162-201-31	CERAMIC	12PF	5%	50V
C564	1-162-294-31	CERAMIC	0.001uF	10%	50V
C565	1-136-177-00	FILM	1uF	5%	50V
C566	1-124-994-11	ELECT	100uF	20%	10V
C567	1-164-159-11	CERAMIC	0.1uF		50V
C569	1-162-201-31	CERAMIC	12PF	5%	50V
C570	1-162-201-31	CERAMIC	12PF	5%	50V
C571	1-162-294-31	CERAMIC	0.001uF	10%	50V
C572	1-162-199-31	CERAMIC	10PF	5%	50V
C573	1-162-199-31	CERAMIC	10PF	5%	50V
C574	1-162-179-11	CERAMIC	0.1uF		50V
C576	1-164-159-11	CERAMIC	0.1uF		50V
C577	1-162-294-31	CERAMIC	0.001uF	10%	50V
C578	1-164-159-11	CERAMIC	0.1uF		50V
C579	1-124-994-11	ELECT	100uF	20%	10V
C580	1-164-159-11	CERAMIC	0.1uF		50V
C582	1-164-159-11	CERAMIC	0.1uF		50V
C583	1-164-159-11	CERAMIC	0.1uF		50V
C584	1-164-159-11	CERAMIC	0.1uF		50V
C585	1-126-022-11	ELECT	47uF	20%	10V
C586	1-162-294-31	CERAMIC	0.001uF	10%	50V
C587	1-126-044-11	ELECT	1uF	20%	50V
C589	1-136-165-00	FILM	0.1uF	5%	50V
C590	1-124-995-11	ELECT	220uF	20%	10V
C591	1-162-207-31	CERAMIC	22PF	5%	50V
C592	1-136-165-00	FILM	0.1uF	5%	50V
C593	1-124-995-11	ELECT	220uF	20%	10V
C595	1-164-159-11	CERAMIC	0.1uF		50V
C596	1-164-159-11	CERAMIC	0.1uF		50V
C598	1-124-994-11	ELECT	100uF	20%	10V
C599	1-136-165-00	FILM	0.1uF	5%	50V
C600	1-136-153-00	FILM	0.01uF	5%	50V

Ref. No.	Part No.	Description			Remark
C601	1-136-165-00	FILM	0.1uF	5%	50V
C602	1-136-165-00	FILM	0.1uF	5%	50V
C604	1-126-022-11	ELECT	47uF	20%	10V
C605	1-136-165-00	FILM	0.1uF	5%	50V
C606	1-126-157-11	ELECT	10uF	20%	16V
C607	1-124-994-11	ELECT	100uF	20%	10V
C608	1-164-159-11	CERAMIC	0.1uF		50V
C609	1-136-153-00	FILM	0.01uF	5%	50V
C610	1-136-157-00	FILM	0.022uF	5%	50V
C611	1-136-157-00	FILM	0.022uF	5%	50V
C612	1-162-294-31	CERAMIC	0.001uF	10%	50V
C613	1-162-294-31	CERAMIC	0.001uF	10%	50V
C614	1-136-153-00	FILM	0.01uF	5%	50V
C615	1-136-153-00	FILM	0.01uF	5%	50V
C616	1-162-290-31	CERAMIC	470PF	10%	50V
C617	1-161-377-00	CERAMIC	0.0047uF	30%	16V
C618	1-162-294-31	CERAMIC	0.001uF	10%	50V
C619	1-124-994-11	ELECT	100uF	20%	10V
C620	1-162-294-31	CERAMIC	0.001uF	10%	50V
C622	1-162-294-31	CERAMIC	0.001uF	10%	50V
C623	1-124-994-11	ELECT	100uF	20%	10V
C624	1-162-294-31	CERAMIC	0.001uF	10%	50V
C625	1-162-199-31	CERAMIC	10PF	5%	50V
C626	1-164-159-11	CERAMIC	0.1uF		50V
C627	1-164-159-11	CERAMIC	0.1uF		50V
C628	1-136-153-00	FILM	0.01uF	5%	50V
C629	1-164-159-11	CERAMIC	0.1uF		50V
C630	1-124-925-11	ELECT	2.2uF	20%	100V
C631	1-136-177-00	FILM	1uF	5%	50V
C634	1-162-294-31	CERAMIC	0.001uF	10%	50V
C635	1-162-294-31	CERAMIC	0.001uF	10%	50V
C636	1-136-165-00	FILM	0.1uF	5%	50V
C637	1-136-165-00	FILM	0.1uF	5%	50V
C638	1-136-165-00	FILM	0.1uF	5%	50V
C640	1-164-159-11	CERAMIC	0.1uF		50V
C641	1-162-294-31	CERAMIC	0.001uF	10%	50V
C642	1-136-153-00	FILM	0.01uF	5%	50V

〈CONNECTOR〉

CN501	* 1-564-715-11	PIN, CONNECTOR (SMALL TYPE)	13P
CN502	* 1-564-710-11	PIN, CONNECTOR (SMALL TYPE)	8P
CN503	* 1-564-507-11	PLUG, CONNECTOR	4P
CN504	* 1-564-511-11	PLUG, CONNECTOR	8P
CN505	* 1-564-506-11	PLUG, CONNECTOR	3P
CN506	* 1-564-339-00	PIN, CONNECTOR	5P
CN507	* 1-564-714-11	PIN, CONNECTOR (SMALL TYPE)	12P
CN508	* 1-564-711-11	PIN, CONNECTOR (SMALL TYPE)	9P
CN531	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE)	7P
CN532	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE)	4P

Ref. No.	Part No.	Description	Remark
CN533	* 1-564-339-61	PIN, CONNECTOR 5P	
CN535	* 1-564-338-61	PIN, CONNECTOR 4P	
CN537	* 1-564-337-61	PIN, CONNECTOR 3P	
CN551	* 1-564-514-11	PLUG, CONNECTOR 11P	
CN552	* 1-564-514-11	PLUG, CONNECTOR 11P	
CN553	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN571	* 1-506-503-11	PIN, CONNECTOR 9P	
CN572	* 1-564-339-61	PIN, CONNECTOR 5P	
CN573	* 1-564-336-00	PIN, CONNECTOR 2P	
CN574	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN581	* 1-564-342-11	PIN, CONNECTOR 8P	
CN582	* 1-564-342-61	PIN, CONNECTOR 8P	
CN591	* 1-564-508-11	PLUG, CONNECTOR 5P	
CN592	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN595	* 1-564-336-61	PIN, CONNECTOR 2P	
CN596	* 1-564-336-71	PIN, CONNECTOR 2P	

〈DIODE〉

D501	8-719-109-72	DIODE	RD3.9ES-B2
D502	8-719-109-66	DIODE	RD3.3ES-B2
D505	8-719-200-77	DIODE	10E2N

〈IC〉

IC501	8-752-831-20	IC	CXP80524-034Q
IC502	8-752-339-43	IC	CXD2601AQ
IC503	8-752-339-43	IC	CXD2601AQ
IC504	8-759-947-57	IC	CXD1136Q
IC505	8-752-030-63	IC	CXA1046M
IC506	8-752-330-68	IC	CXK58257M-12L
IC507	8-752-330-68	IC	CXK58257M-12L
IC508	8-759-903-58	IC	LM358P
IC509	8-759-903-58	IC	LM358P
IC510	8-759-903-58	IC	LM358P
IC511	8-759-903-58	IC	LM358P
IC512	8-759-916-20	IC	SN74HC14AN
IC513	8-759-633-65	IC	M54641L
IC514	8-759-633-65	IC	M54641L
IC515	8-759-987-16	IC	LM393P
IC516	8-759-239-47	IC	TC74HC123AP
IC517	8-759-144-82	IC	uPC2405HF
IC519	8-759-036-44	IC	MC74AC74N
IC520	8-759-916-14	IC	SN74HC04AN
IC521	8-759-916-12	IC	SN74HC00AN
IC522	8-759-903-58	IC	LM358P
IC523	8-759-917-18	IC	SN74HCU04AN
IC525	8-759-916-50	IC	SN74HC157AN
IC526	8-759-916-14	IC	SN74HC04AN
IC527	8-759-916-55	IC	SN74HC175AN
IC528	8-759-916-14	IC	SN74HC04AN
IC529	8-759-906-24	IC	SN74LS624N
IC530	8-759-916-50	IC	SN74HC157AN

DIGITAL

Ref. No.	Part No.	Description	Remark
IC531	8-759-916-55	IC SN74HC175AN	
IC532	8-759-916-50	IC SN74HC157AN	
IC533	8-759-916-16	IC SN74HC08AN	
IC534	8-759-504-22	IC TDA1543	
IC535	8-759-903-58	IC LM358P	
IC536	8-759-903-58	IC LM358P	
		〈INDUCTOR〉	
L501	1-410-509-11	INDUCTOR 10uH	
L502	1-410-509-11	INDUCTOR 10uH	
L503	1-410-509-11	INDUCTOR 10uH	
L504	1-410-509-11	INDUCTOR 10uH	
L505	1-410-509-11	INDUCTOR 10uH	
L506	1-410-509-11	INDUCTOR 10uH	
L507	1-410-509-11	INDUCTOR 10uH	
L508	1-410-498-11	INDUCTOR 1.2uH	
L509	1-410-509-11	INDUCTOR 10uH	
L511	1-410-509-11	INDUCTOR 10uH	
L513	1-410-953-11	INDUCTOR, SMALL TYPE	
		〈TRANSISTOR〉	
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q502	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q503	8-729-924-90	TRANSISTOR 2SB1370-EF	
Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q505	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q506	8-729-924-90	TRANSISTOR 2SB1370-EF	
Q507	8-729-900-80	TRANSISTOR DTC114ES	
Q509	8-729-900-80	TRANSISTOR DTC114ES	
Q510	8-729-801-84	TRANSISTOR 2SB1013-4	
Q511	8-729-801-93	TRANSISTOR 2SD1387-3	
Q512	8-729-900-80	TRANSISTOR DTC114ES	
Q514	8-729-900-80	TRANSISTOR DTC114ES	
Q515	8-729-801-84	TRANSISTOR 2SB1013-4	
Q516	8-729-801-93	TRANSISTOR 2SD1387-3	
Q517	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q518	8-729-924-90	TRANSISTOR 2SB1370-EF	
Q519	8-729-900-80	TRANSISTOR DTC114ES	
Q520	8-729-900-80	TRANSISTOR DTC114ES	
Q521	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q523	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q524	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q525	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q526	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q527	8-729-900-80	TRANSISTOR DTC114ES	
Q528	8-729-900-80	TRANSISTOR DTC114ES	
Q530	8-729-900-80	TRANSISTOR DTC114ES	
Q531	8-729-900-80	TRANSISTOR DTC114ES	
Q532	8-729-900-80	TRANSISTOR DTC114ES	
Q533	8-729-900-80	TRANSISTOR DTC114ES	
Q534	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q535	8-729-900-80	TRANSISTOR DTC114ES	
Q536	8-729-900-80	TRANSISTOR DTC114ES	
		〈RESISTOR〉	
R501	1-249-429-11	CARBON 10K 5% 1/4W	
R502	1-249-429-11	CARBON 10K 5% 1/4W	
R503	1-249-429-11	CARBON 10K 5% 1/4W	
R504	1-249-429-11	CARBON 10K 5% 1/4W	
R505	1-249-429-11	CARBON 10K 5% 1/4W	
R506	1-249-429-11	CARBON 10K 5% 1/4W	
R507	1-249-441-11	CARBON 100K 5% 1/4W	
R508	1-249-429-11	CARBON 10K 5% 1/4W	
R509	1-249-429-11	CARBON 10K 5% 1/4W	
R510	1-249-417-11	CARBON 1K 5% 1/4W	
R511	1-249-417-11	CARBON 1K 5% 1/4W	
R512	1-249-405-11	CARBON 100 5% 1/4W	
R513	1-249-417-11	CARBON 1K 5% 1/4W	
R514	1-249-408-11	CARBON 180 5% 1/4W	
R515	1-249-441-11	CARBON 100K 5% 1/4W	
R516	1-249-429-11	CARBON 10K 5% 1/4W	
R517	1-249-417-11	CARBON 1K 5% 1/4W	
R518	1-249-429-11	CARBON 10K 5% 1/4W	
R519	1-249-417-11	CARBON 1K 5% 1/4W	
R520	1-249-405-11	CARBON 100 5% 1/4W	
R521	1-249-417-11	CARBON 1K 5% 1/4W	
R522	1-249-408-11	CARBON 180 5% 1/4W	
R523	1-249-429-11	CARBON 10K 5% 1/4W	
R524	1-249-429-11	CARBON 10K 5% 1/4W	
R525	1-249-429-11	CARBON 10K 5% 1/4W	
R526	1-249-429-11	CARBON 10K 5% 1/4W	
R527	1-249-429-11	CARBON 10K 5% 1/4W	
R528	1-249-429-11	CARBON 10K 5% 1/4W	
R529	1-249-409-11	CARBON 220 5% 1/4W	
R530	1-249-409-11	CARBON 220 5% 1/4W	
R531	1-249-409-11	CARBON 220 5% 1/4W	
R532	1-249-409-11	CARBON 220 5% 1/4W	
R533	1-249-417-11	CARBON 1K 5% 1/4W	
R534	1-249-441-11	CARBON 100K 5% 1/4W	
R535	1-249-423-11	CARBON 3.3K 5% 1/4W	
R536	1-249-417-11	CARBON 1K 5% 1/4W	
R537	1-249-429-11	CARBON 10K 5% 1/4W	
R538	1-249-429-11	CARBON 10K 5% 1/4W	
R539	1-249-419-11	CARBON 1.5K 5% 1/4W	
R540	1-249-407-11	CARBON 150 5% 1/4W	
R541	1-249-417-11	CARBON 1K 5% 1/4W	
R542	1-249-482-11	CARBON 4.7 5% 1/2W	
R543	1-249-424-11	CARBON 3.9K 5% 1/4W	
R549	1-249-429-11	CARBON 10K 5% 1/4W	
R550	1-249-417-11	CARBON 1K 5% 1/4W	

Ref. No.	Part No.	Description				Remark
R551	1-249-435-11	CARBON	33K	5%	1/4W	
R552	1-249-435-11	CARBON	33K	5%	1/4W	
R553	1-249-423-11	CARBON	3.3K	5%	1/4W	
R554	1-249-423-11	CARBON	3.3K	5%	1/4W	
R555	1-249-417-11	CARBON	1K	5%	1/4W	
R556	1-249-435-11	CARBON	33K	5%	1/4W	
R557	1-249-429-11	CARBON	10K	5%	1/4W	
R558	1-249-417-11	CARBON	1K	5%	1/4W	
R559	1-249-435-11	CARBON	33K	5%	1/4W	
R560	1-249-435-11	CARBON	33K	5%	1/4W	
R561	1-249-423-11	CARBON	3.3K	5%	1/4W	
R562	1-249-423-11	CARBON	3.3K	5%	1/4W	
R563	1-249-417-11	CARBON	1K	5%	1/4W	
R564	1-249-435-11	CARBON	33K	5%	1/4W	
R565	1-249-429-11	CARBON	10K	5%	1/4W	
R567	1-247-804-11	CARBON	75	5%	1/4W	
R569	1-247-804-11	CARBON	75	5%	1/4W	
R570	1-249-425-11	CARBON	4.7K	5%	1/4W	
R571	1-249-429-11	CARBON	10K	5%	1/4W	
R572	1-249-433-11	CARBON	22K	5%	1/4W	
R573	1-249-425-11	CARBON	4.7K	5%	1/4W	
R574	1-249-425-11	CARBON	4.7K	5%	1/4W	
R575	1-249-429-11	CARBON	10K	5%	1/4W	
R576	1-249-433-11	CARBON	22K	5%	1/4W	
R577	1-249-425-11	CARBON	4.7K	5%	1/4W	
R578	1-249-433-11	CARBON	22K	5%	1/4W	
R580	1-249-433-11	CARBON	22K	5%	1/4W	
R581	1-249-433-11	CARBON	22K	5%	1/4W	
R582	1-249-433-11	CARBON	22K	5%	1/4W	
R583	1-249-433-11	CARBON	22K	5%	1/4W	
R584	1-249-425-11	CARBON	4.7K	5%	1/4W	
R585	1-249-425-11	CARBON	4.7K	5%	1/4W	
R586	1-249-425-11	CARBON	4.7K	5%	1/4W	
R587	1-249-417-11	CARBON	1K	5%	1/4W	
R588	1-249-417-11	CARBON	1K	5%	1/4W	
R589	1-249-425-11	CARBON	4.7K	5%	1/4W	
R590	1-249-425-11	CARBON	4.7K	5%	1/4W	
R591	1-249-425-11	CARBON	4.7K	5%	1/4W	
R592	1-249-425-11	CARBON	4.7K	5%	1/4W	
R594	1-249-425-11	CARBON	4.7K	5%	1/4W	
R595	1-249-433-11	CARBON	22K	5%	1/4W	
R597	1-249-425-11	CARBON	4.7K	5%	1/4W	
R598	1-249-433-11	CARBON	22K	5%	1/4W	
R599	1-249-429-11	CARBON	10K	5%	1/4W	
R600	1-249-409-11	CARBON	220	5%	1/4W	
R601	1-249-409-11	CARBON	220	5%	1/4W	
R602	1-249-413-11	CARBON	470	5%	1/4W	
R603	1-249-413-11	CARBON	470	5%	1/4W	
R604	1-249-409-11	CARBON	220	5%	1/4W	
R605	1-249-413-11	CARBON	470	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R606	1-249-417-11	CARBON	1K	5%	1/4W	
R609	1-249-425-11	CARBON	4.7K	5%	1/4W	
R610	1-249-437-11	CARBON	47K	5%	1/4W	
R611	1-249-421-11	CARBON	2.2K	5%	1/4W	
R612	1-249-417-11	CARBON	1K	5%	1/4W	
R614	1-249-435-11	CARBON	33K	5%	1/4W	
R615	1-249-429-11	CARBON	10K	5%	1/4W	
R616	1-249-421-11	CARBON	2.2K	5%	1/4W	
R617	1-249-429-11	CARBON	10K	5%	1/4W	
R618	1-249-421-11	CARBON	2.2K	5%	1/4W	
R619	1-249-401-11	CARBON	47	5%	1/4W	
R620	1-249-409-11	CARBON	220	5%	1/4W	
R621	1-249-409-11	CARBON	220	5%	1/4W	
R622	1-249-401-11	CARBON	47	5%	1/4W	
R623	1-249-409-11	CARBON	220	5%	1/4W	
R624	1-249-409-11	CARBON	220	5%	1/4W	
R625	1-247-899-11	CARBON	680K	5%	1/4W	
R627	1-249-425-11	CARBON	4.7K	5%	1/4W	
R628	1-249-417-11	CARBON	1K	5%	1/4W	
R629	1-249-433-11	CARBON	22K	5%	1/4W	
R630	1-249-425-11	CARBON	4.7K	5%	1/4W	
R631	1-249-415-11	CARBON	680	5%	1/4W	
R632	1-249-439-11	CARBON	68K	5%	1/4W	
R633	1-249-425-11	CARBON	4.7K	5%	1/4W	
R634	1-249-440-11	CARBON	82K	5%	1/4W	
R635	1-249-427-11	CARBON	6.8K	5%	1/4W	
R636	1-249-440-11	CARBON	82K	5%	1/4W	
R637	1-249-425-11	CARBON	4.7K	5%	1/4W	
R638	1-249-429-11	CARBON	10K	5%	1/4W	
R639	1-249-417-11	CARBON	1K	5%	1/4W	
R640	1-249-417-11	CARBON	1K	5%	1/4W	
R641	1-249-424-11	CARBON	3.9K	5%	1/4W	
R642	1-249-435-11	CARBON	33K	5%	1/4W	
R643	1-249-435-11	CARBON	33K	5%	1/4W	
R644	1-249-417-11	CARBON	1K	5%	1/4W	
R645	1-249-437-11	CARBON	47K	5%	1/4W	
R646	1-249-411-11	CARBON	330	5%	1/4W	
R647	1-249-437-11	CARBON	47K	5%	1/4W	
R648	1-249-439-11	CARBON	68K	5%	1/4W	
R649	1-249-405-11	CARBON	100	5%	1/4W	
R650	1-249-417-11	CARBON	1K	5%	1/4W	
R651	1-249-401-11	CARBON	47	5%	1/4W	
R652	1-249-401-11	CARBON	47	5%	1/4W	
R656	1-249-417-11	CARBON	1K	5%	1/4W	
R657	1-249-401-11	CARBON	47	5%	1/4W	
R658	1-249-417-11	CARBON	1K	5%	1/4W	
R659	1-249-413-11	CARBON	470	5%	1/4W	
R660	1-249-413-11	CARBON	470	5%	1/4W	
R661	1-249-393-11	CARBON	10	5%	1/4W	
R663	1-249-433-11	CARBON	22K	5%	1/4W	

DIGITAL | DIGITAL IN (COAX) | DIGITAL OUT (COAX) | DIODE | HEADPHONE JACK | HEADPHONE VOL | LINE FILTER

Ref. No.	Part No.	Description				Remark
R664	1-249-425-11	CARBON	4.7K	5%	1/4W	
R665	1-249-441-11	CARBON	100K	5%	1/4W	
R666	1-249-425-11	CARBON	4.7K	5%	1/4W	
R667	1-249-441-11	CARBON	100K	5%	1/4W	
R668	1-249-433-11	CARBON	22K	5%	1/4W	
R669	1-249-441-11	CARBON	100K	5%	1/4W	
R670	1-249-429-11	CARBON	10K	5%	1/4W	
R672	1-249-407-11	CARBON	150	5%	1/4W	
R673	1-247-891-00	CARBON	330K	5%	1/4W	
R674	1-249-417-11	CARBON	1K	5%	1/4W	
R675	1-249-429-11	CARBON	10K	5%	1/4W	
R676	1-249-441-11	CARBON	100K	5%	1/4W	
R680	1-249-410-11	CARBON	270	5%	1/4W	
R681	1-249-405-11	CARBON	100	5%	1/4W	
		〈VARIABLE RESISTOR〉				
RV501	1-238-019-11	RES, ADJ, CARBON 47K				
RV502	1-238-019-11	RES, ADJ, CARBON 47K				
RV503	1-238-016-11	RES, ADJ, CARBON 10K				
RV504	1-238-016-11	RES, ADJ, CARBON 10K				
RV505	1-238-015-11	RES, ADJ, CARBON 4.7K				
RV506	1-238-015-11	RES, ADJ, CARBON 4.7K				
		〈RELAY〉				
RY518	1-515-640-11	RELAY (5V)				
		〈VIBRATOR〉				
X501	1-567-816-11	VIBRATOR, CRYSTAL (18.8MHz)				
X502	1-567-815-11	VIBRATOR, CRYSTAL (22.6MHz)				
X503	1-578-667-11	VIBRATOR, CRYSTAL (49.1MHz)				
**********						
*	1-637-616-11	DIGITAL IN (COAX) BOARD				
		**********				
		〈CAPACITOR〉				
C608	1-126-059-11	ELECT	10MF	20%	50V	
		〈JACK〉				
J601	1-563-079-11	JACK, PIN 1P (DIGITAL IN)				
		〈RESISTOR〉				
R608	1-247-804-11	CARBON	75	5%	1/4W	
**********						
*	1-637-617-11	DIGITAL OUT (COAX) BOARD				
		**********				
*	4-916-318-01	PLATE, GROUND				
		〈CAPACITOR〉				
C182	1-162-179-11	CERAMIC	0.1uF		50V	
		〈JACK〉				
J181	1-566-922-21	JACK, PIN 1P (DIGITAL OUT)				
		〈RESISTOR〉				
R183	1-247-804-11	CARBON	75	5%	1/4W	
		〈COIL〉				
T182	1-459-795-11	COIL (WITH CORE)				
**********						
*	1-637-625-11	DIODE BOARD				
		**********				
		〈DIODE〉				
D901	8-719-302-38	DIODE RBV-602-01				
**********						
*	1-637-614-11	HEADPHONE JACK BOARD				
		**********				
		〈CAPACITOR〉				
C720	1-162-290-31	CERAMIC	470PF	10%	50V	
C721	1-162-290-31	CERAMIC	470PF	10%	50V	
C722	1-136-165-00	FILM	0.1MF	5%	50V	
		〈JACK〉				
J721	1-565-327-11	JACK, LARGE TYPE 1P (PHONES)				
**********						
*	1-637-613-11	HEADPHONE VOL BOARD				
		**********				
		〈VARIABLE RESISTOR〉				
RV302	1-238-841-11	RES, VAR, CARBON 20K/20K (PHONE LEVEL)				
**********						
*	1-637-621-11	LINE FILTER BOARD				
		**********				
*	1-533-213-31	HOLDER, FUSE				
	4-870-539-00	PLATE, GROUND				

LINE FILTER | LOADING MOTOR | LOAD-SW | MD

Ref.No.	Part No.	Description			Remark
		⟨CAPACITOR⟩			
C941	⚠ 1-161-744-00	CERAMIC	0.01uF		400V
C942	⚠ 1-161-742-00	CERAMIC	0.0022uF	20%	400V
C943	⚠ 1-161-742-00	CERAMIC	0.0022uF	20%	400V
C944	⚠ 1-161-742-00	CERAMIC	0.0022uF	20%	400V
C945	⚠ 1-161-742-00	CERAMIC	0.0022uF	20%	400V
C946	⚠ 1-161-744-00	CERAMIC	0.01uF		400V
		⟨CONNECTOR⟩			
CN941	* 1-564-321-00	PIN, CONNECTOR 2P			
CN942	* 1-565-395-11	PIN, CONNECTOR 3P			
CN943	* 1-564-687-11	PIN, CONNECTOR 3P			
CN944	* 1-564-687-11	PIN, CONNECTOR 3P			
		⟨FUSE⟩			
FH941	⚠ 1-532-203-00	FUSE, TIME-LAG (T2A 250V)(AEP, UK)			
FH941	⚠ 1-532-743-11	FUSE, GLASS TUBE 2A 125V (US, CANADIAN)			
		⟨COIL⟩			
T901	⚠ 1-421-915-11	COIL, LINE FILTER			
**********					
	* 1-637-601-11	LOADING MOTOR BOARD			
		**********			
		⟨CAPACITOR⟩			
C011	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		⟨CONNECTOR⟩			
CN001	* 1-564-497-11	PIN, CONNECTOR 4P			
CN002	* 1-564-496-11	PIN, CONNECTOR 3P			
CN054	* 1-564-523-11	PLUG, CONNECTOR 8P			
**********					
	* 1-637-606-11	LOAD-SW BOARD			
		**********			
		⟨SWITCH⟩			
S011	1-571-489-11	SWITCH, SLIDE			
S012	1-571-489-11	SWITCH, SLIDE			
**********					
	* A-2006-382-A	MD BOARD, COMPLETE			
		**********			
	4-352-844-01	PIN, LEAD, COATING			

Ref.No.	Part No.	Description			Remark
		⟨JUMPER RESISTOR⟩			
JW1	1-216-296-00	METAL CHIP	0	5% 1/8W	
JW2	1-216-296-00	METAL CHIP	0	5% 1/8W	
JW3	1-216-296-00	METAL CHIP	0	5% 1/8W	
JW4	1-216-296-00	METAL CHIP	0	5% 1/8W	
		⟨CAPACITOR⟩			
C001	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C002	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C003	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C004	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C005	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C006	1-124-126-00	ELECT	47uF	20%	10V
C007	1-124-126-00	ELECT	47uF	20%	10V
C021	1-124-925-11	ELECT	2.2uF	20%	100V
C022	1-124-126-00	ELECT	47uF	20%	10V
C031	1-124-126-00	ELECT	47uF	20%	10V
C032	1-124-126-00	ELECT	47uF	20%	10V
C033	1-124-126-00	ELECT	47uF	20%	10V
		⟨CONNECTOR⟩			
CN003	* 1-564-505-11	PLUG, CONNECTOR 2P			
CN004	* 1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CN005	* 1-564-515-11	PLUG, CONNECTOR 12P			
CN006	* 1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CN007	* 1-568-369-11	HOUSING, CONNECTOR(PC BOARD) 8P			
CN008	* 1-564-338-00	PIN, CONNECTOR 4P			
CN009	* 1-564-338-61	PIN, CONNECTOR 4P			
CN051	* 1-564-715-11	PIN, CONNECTOR (SMALL TYPE)13P			
CN052	* 1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P			
CN053	* 1-564-507-11	PLUG, CONNECTOR 4P			
		⟨DIODE⟩			
D011	8-719-104-34	DIODE 1S2836			
D012	8-719-104-34	DIODE 1S2836			
		⟨IC⟩			
IC001	8-759-107-68	IC CX20115A			
IC002	8-759-502-80	IC LM358M			
		⟨TRANSISTOR⟩			
Q001	8-729-100-66	TRANSISTOR 2SC1623-L6			
Q002	8-729-101-07	TRANSISTOR 2SB798-DL			
Q003	8-729-900-53	TRANSISTOR DTC114EK			
		⟨RESISTOR⟩			
R001	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R002	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R003	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R004	1-216-073-00	METAL CHIP	10K	5% 1/10W	

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

MD MOTOR T-END OPTICAL RECEIVE POWER

Ref. No.	Part No.	Description				Remark
R005	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R006	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W	
R007	1-216-029-00	METAL CHIP	150	5%	1/10W	
R008	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R009	1-216-025-00	METAL CHIP	100	5%	1/10W	
R010	1-216-084-00	METAL GLAZE	30K	5%	1/10W	
R011	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R012	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R013	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R014	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R015	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R022	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R023	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R024	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R025	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R031	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R032	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R033	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R034	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R035	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R036	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R037	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R038	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
**********						
	* 1-633-726-11	MOTOR BOARD				
		**********				
		〈CAPACITOR〉				
C01	1-162-851-11	CERAMIC	0.1MF		16V	
		〈CONNECTOR〉				
CN01	* 1-564-336-00	PIN, CONNECTOR 2P				
CN02	* 1-564-336-61	PIN, CONNECTOR 2P				
CN03	* 1-564-498-11	PIN, CONNECTOR 5P				
**********						
	* 1-637-603-11	T-END BOARD				
		**********				
		〈TRANSISTOR〉				
Q011	1-808-957-11	TRANSISTOR PHOTO SENSOR				
**********						
	* 1-637-609-11	OPTICAL RECEIVE BOARD				
		**********				
		〈CAPACITOR〉				
C718	1-124-779-00	ELECT CHIP	10uF	20%	16V	

Ref. No.	Part No.	Description				Remark
		〈IC〉				
IC711	8-749-920-59	IC A1QH3020S				
**********						
	* A-2006-626-A	POWER BOARD, COMPLETE				
		**********				
	* 1-533-213-31	HOLDER, FUSE				
	* 1-568-130-11	BAR, BUS 3P				
		〈CAPACITOR〉				
C901	1-126-016-11	ELECT	4700uF	20%	16V	
C902	1-126-016-11	ELECT	4700uF	20%	16V	
C903	1-124-999-11	ELECT	2200uF	20%	10V	
C904	1-124-994-11	ELECT	100uF	20%	10V	
C905	1-124-473-11	ELECT	1000uF	20%	10V	
C906	1-124-473-11	ELECT	1000uF	20%	10V	
C907	1-126-059-11	ELECT	10uF	20%	50V	
C908	1-126-016-11	ELECT	4700uF	20%	16V	
C909	1-126-939-11	ELECT	10000uF	20%	16V	
C910	1-124-473-11	ELECT	1000uF	20%	10V	
C911	1-126-066-11	ELECT	470uF	20%	63V	
C912	1-126-052-11	ELECT	100uF	20%	50V	
C913	1-126-052-11	ELECT	100uF	20%	50V	
C914	1-136-165-00	FILM	0.1uF	5%	50V	
C915	1-136-165-00	FILM	0.1uF	5%	50V	
C991	1-126-129-11	ELECT	6800uF	20%	35V	
C992	1-126-129-11	ELECT	6800uF	20%	35V	
C993	1-136-165-00	FILM	0.1uF	5%	50V	
C994	1-136-177-00	FILM	1uF	5%	50V	
C995	1-136-165-00	FILM	0.1uF	5%	50V	
C996	1-136-177-00	FILM	1uF	5%	50V	
		〈CONNECTOR〉				
CN901	* 1-564-506-11	PLUG, CONNECTOR 3P				
CN902	* 1-564-506-11	PLUG, CONNECTOR 3P				
CN903	* 1-564-506-11	PLUG, CONNECTOR 3P				
CN904	* 1-564-507-11	PLUG, CONNECTOR 4P				
CN991	* 1-560-061-00	PIN, CONNECTOR 3P				
CN992	* 1-560-062-00	PIN, CONNECTOR 4P				
CN993	* 1-560-063-00	PIN, CONNECTOR 5P				
CN994	* 1-560-061-00	PIN, CONNECTOR 3P				
		〈DIODE〉				
D903	8-719-200-77	DIODE 10E2N				
D904	8-719-200-77	DIODE 10E2N				
D905	8-719-107-94	DIODE 1SS202-1				
D906	8-719-107-94	DIODE 1SS202-1				
D907	8-719-107-94	DIODE 1SS202-1				

POWER **PUSH SW** **REC VOL** **S-END** **S-SW**

Ref. No.	Part No.	Description	Remark
D908	8-719-230-02	DIODE 30D2	
D909	8-719-230-02	DIODE 30D2	
D910	8-719-200-77	DIODE 10E2N	
D991	8-719-210-30	DIODE F10P20F(R)	
D992	8-719-210-38	DIODE F10P20FR	
		⟨FUSE⟩	
FH901 ⚠	1-532-237-00	FUSE, TIME-LAG (T3, 15A 250V)(AEP, UK)	
FH901 ⚠	1-532-745-11	FUSE, GLASS TUBE 3.15A 125V (US, CANADIAN)	
FH902 ⚠	1-532-203-00	FUSE, TIME-LAG (T2A 250V)(AEP, UK)	
FH902 ⚠	1-532-743-11	FUSE, GLASS TUBE 2A 125V (US, CANADIAN)	
FH903 ⚠	1-532-203-00	FUSE, TIME-LAG (T2A 250V)(AEP, UK)	
FH903 ⚠	1-532-743-11	FUSE, GLASS TUBE 2A 125V (US, CANADIAN)	
		⟨FUSIBLE RESISTOR⟩	
FR901 ⚠	1-219-137-11	FUSIBLE 0.33 10% 1/4W	
FR902 ⚠	1-212-849-00	FUSIBLE 4.7 5% 1/4W	F
FR904 ⚠	1-212-865-00	FUSIBLE 22 5% 1/4W	F
FR905 ⚠	1-212-865-00	FUSIBLE 22 5% 1/4W	F
		⟨TRANSISTOR⟩	
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q902	8-729-111-55	TRANSISTOR 2SD1312-K	
		⟨RESISTOR⟩	
R901	1-249-425-11	CARBON 4.7K 5% 1/4W	
R902	1-249-417-11	CARBON 1K 5% 1/4W	
R903	1-249-425-11	CARBON 4.7K 5% 1/4W	
R904	1-249-437-11	CARBON 47K 5% 1/4W	
R905	1-247-887-00	CARBON 220K 5% 1/4W	
R907	1-249-409-11	CARBON 220 5% 1/4W	
		⟨THERMISTOR⟩	
TH903	1-806-882-11	THERMISTOR (POSITIVE)	
THP901	1-808-065-11	THERMISTOR, POSITIVE	
THP902	1-808-065-11	THERMISTOR, POSITIVE	
		⟨DIODE⟩	
ZD901	8-719-914-12	DIODE HZ4BL	
ZD902	8-719-934-25	DIODE HZS33-1L	
ZD903	8-719-933-33	DIODE HZS6A1L	
**********			
*	1-637-610-11	PUSH SW BOARD **********	
		⟨CONNECTOR⟩	
CN778 *	1-564-337-00	PIN, CONNECTOR 3P	

Ref. No.	Part No.	Description	Remark
		⟨SWITCH⟩	
S747	1-554-118-00	SWITCH, PUSH (1 KEY)(REC MODE)	
S750	1-572-865-11	SWITCH, PUSH (REC MONITOR)	
**********			
*	1-637-615-11	REC VOL BOARD **********	
	4-352-844-01	PIN, LEAD, COATING	
		⟨CAPACITOR⟩	
C301	1-136-165-00	FILM 0.1MF 5% 50V	
		⟨CONNECTOR⟩	
CN224 *	1-564-507-11	PLUG, CONNECTOR 4P	
		⟨RESISTOR⟩	
R101	1-249-459-11	CARBON 12K 5% 1/4W	
R102	1-249-461-11	CARBON 18K 5% 1/4W	
R201	1-249-459-11	CARBON 12K 5% 1/4W	
R202	1-249-461-11	CARBON 18K 5% 1/4W	
		⟨VARIABLE RESISTOR⟩	
RV301	1-241-360-11	RES, VAR, CARBON 50K/50K (REC LEVEL)	
**********			
*	1-637-602-11	S-END BOARD **********	
		⟨CONNECTOR⟩	
CN055 *	1-564-518-11	PLUG, CONNECTOR 3P	
		⟨TRANSISTOR⟩	
Q012	1-808-957-11	TRANSISTOR PHOTO SENSOR	
**********			
*	1-637-604-11	S-SW BOARD **********	
		⟨SWITCH⟩	
S014	1-572-458-11	SWITCH, PUSH	
**********			

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

SLIDE SW | SW (IN) | SW (OUT) | T-SW | TRANSISTOR (A) | TRANSISTOR (B) | TRANSISTOR (C)

Ref. No.	Part No.	Description	Remark
	* 1-637-608-11	SLIDE SW BOARD	
		**********	
		〈RESISTOR〉	
R807	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R808	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
		〈SWITCH〉	
S746	1-516-781-XX	SWITCH, SLIDE (INPUT MODE)	
S749	1-516-781-XX	SWITCH, SLIDE (TIMER)	
	* 1-633-727-11	SW (IN) BOARD	
		**********	
		〈SWITCH〉	
S11	1-572-247-11	SWITCH, SLIDE	
	* 1-633-728-11	SW (OUT) BOARD	
		〈SWITCH〉	
S12	1-570-975-11	SWITCH, SLIDE	
	* 1-637-605-11	T-SW BOARD	
		**********	
		〈SWITCH〉	
S015	1-572-459-11	SWITCH, PUSH	
	* 1-637-622-11	TRANSISTOR (A) BOARD	
		**********	
		〈CAPACITOR〉	
C931	1-162-294-31	CERAMIC 0.001uF 10% 50V	
		〈TRANSISTOR〉	
Q931	8-729-111-55	TRANSISTOR 2SD1312-K	
	* 1-637-623-11	TRANSISTOR (B) BOARD	
		**********	
		〈CAPACITOR〉	
C932	1-164-159-11	CERAMIC 0.1uF	50V
C933	1-164-159-11	CERAMIC 0.1uF	50V
		〈IC〉	
IC901	8-759-148-79	IC uPC2406HF	
	* 1-637-624-11	TRANSISTOR (C) BOARD	
		**********	
		〈CAPACITOR〉	
C934	1-164-159-11	CERAMIC 0.1uF	50V
C935	1-164-159-11	CERAMIC 0.1uF	50V
		〈IC〉	
IC902	8-759-144-82	IC uPC2405HF	

ACCESSORY & PACKING MATERIALS

	1-465-859-11	REMOTE COMMANDER (RM-2700)
⚠	1-534-827-14	CORD, POWER (US, CANADIAN)
⚠	1-556-760-11	CORD, POWER (3 CORE) (AEP, UK)
	2-297-913-00	WASHER (DIA. 5), ORNAMENTAL
*	3-370-496-01	INDIVIDUAL CARTON
*	3-370-497-01	CUSHION
	3-371-211-01	MANUAL, OPERATION (ENGLISH, FRENCH) (US, CANADIAN)
	3-371-212-01	MANUAL, OPERATION (ENGLISH, FRENCH, GERMAN) (AEP, UK)
	3-703-450-01	INSTRUCTION (US, CANADIAN)
	3-707-584-01	COVER, BATTERY (FOR RM-2700)
	4-933-446-01	SCREW (SIDE PANEL)
	7-682-276-04	SCREW +RK 5X12

MISCELLANEOUS

122	⚠*	1-580-375-21	INLET 3P
131		1-555-724-00	WIRE, GROUND
M902		8-835-306-01	MOTOR, DC U-17A
M905	*	8-835-205-01	MOTOR, DC U-2A
MOT011		A-2003-660-A	MOTOR ASSY (LOADING)
MOT012		A-2003-448-A	MOTOR ASSY (CASSETTE COMPARTMENT)
PM002		1-454-522-11	SOLENOID, PLUNGER
PL701		1-518-664-11	LAMP, PILOT
PL702		1-518-664-11	LAMP, PILOT

Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description	Remark
PT901	⚠ 1-450-450-11	TRANSFORMER, POWER (D) (US, CANADIAN)	
PT901	⚠ 1-450-603-11	TRANSFORMER, POWER (AEP, UK)	
PT902	⚠ 1-450-459-11	TRANSFORMER, POWER (A) (US, CANADIAN)	
PT902	⚠ 1-450-604-11	TRANSFORMER, POWER (A) (AEP, UK)	
S901	⚠ 1-554-920-11	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)	

****

HARDWARE LIST

#1	7-621-259-39	SCREW +P 2.6X5
#2	7-682-548-09	SCREW, +BVTT 3X8 (S)
#3	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S
#4	7-621-773-86	SCREW +B 2.6X4
#5	7-682-560-04	SCREW +BVTT 4X6 (S)
#6	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#7	7-682-548-04	SCREW, TIGHT, S
#8	7-621-771-06	SCREW, LOCK
#9	7-682-147-15	SCREW, TR
#10	7-621-772-10	SCREW +B 2X4
#11	7-682-547-09	SCREW +BVTT 3X6 (S)
#12	7-682-545-09	SCREW +B 3X4
#13	7-621-772-00	SCREW +B 2X3
#14	7-688-001-12	W 2, MIDDLE
#15	7-621-775-08	SCREW +B 2.6X3
#16	7-621-255-45	SCREW +P 2X6
#17	7-627-852-28	+P 1.7X3
#18	7-621-772-08	SCREW +B 2X3
#19	7-628-253-00	SCREW +PS 2X4
#20	7-627-553-27	SCREW, PRECISION +P 2X2.5
#21	7-627-553-67	SCREW, PRECISION +P 2X5
#22	7-621-772-20	SCREW +B 2X5
#23	7-627-450-78	SCREW, PRECISION +K 1.7X4
#24	7-627-552-47	SCREW, PRECISION +P 1.7X4
#25	7-621-759-35	+PSW, 2.6X5
#26	7-621-775-10	SCREW +B 2.6X4
#27	7-682-660-01	SCREW +PS 4X6

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

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PCM-2700

SONY
SERVICE MANUAL

US Model
Canadian Model
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UK Model

CORRECTION-1

Correct your service manual as shown below.

☛ : **indicates corrected portion.**

Page	INCORRECT	CORRECT
	4-2. ELECTRICAL ADJUSTMENTS	**4-2. ELECTRICAL ADJUSTMENTS**
20	Tape Path Fine Adjustment (×1.5 FWD Mode) 4. With the REC MODE switch set to STANDARD (ATF : OFF) and the INPUT switch set to ANALOG or COAXIAL (OFFSET : + or −), fine adjust the S1 and T1 guides so that the oscilloscope RF signal waveform remains the same when high-low is repeated. 5. Check the RF signal waveform with the REC MODE switch set to LONG (ATF : ON) and the INPUT switch set to ANALOG or COAXIAL (OFFSET : + or −).	Tape Path Fine Adjustment (×1.5 FWD Mode) 4. With the REC MODE switch set to STANDARD (ATF : OFF) and the INPUT switch set to ANALOG 44.1K or DIGITAL (OFFSET : + or −), fine adjust the S1 and T1 guides so that the oscilloscope RF signal waveform remains the same when high-low is repeated. 5. Check the RF signal waveform with the REC MODE switch set to LONG (ATF : ON) and the INPUT switch set to ANALOG 44.1K or DIGITAL (OFFSET : + or −).
21	6. Check the RF signal waveform with the REC MODE switch set to LONG (ATF : ON) and the INPUT switch set to OPTICAL (OFFSET : 0).	6. Check the RF signal waveform with the REC MODE switch set to LONG (ATF : ON) and the INPUT switch set to ANALOG 48K (OFFSET : 0).
21	DPG Adjustment 3. Set-the REC MODE switch to LONG (ATF : ON) and the TIMER switch to OFF (OFFSET : 0).	DPG Adjustment 3. Set-the REC MODE switch to LONG (ATF : ON) and the INPUT switch to ANALOG 48K (OFFSET : 0).
21	ATF Pilot Adjustment 2. Put the set into the test mode and load test tape TY-7252 (8-909-822-00).	ATF Pilot Adjustment 2. Put the set into the test mode and load test tape TY-7111 (8-909-812-00).

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CORRECTION-2

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Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
75	136	*1-640-285-11	BAL CONV BOARD	*A-2006-603-A	MOUNTED PCB, BAL CONV

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CORRECTION-3

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____ (Under line) : indicates corrected portion.

Page	INCORRECT			CORRECT		
	Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
79	312	3-701-437-01	SHEET (CATCHER)	312	3-364-033-01	SHEET (CATCHER)

(SPM-95058)

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